ORIGINAL

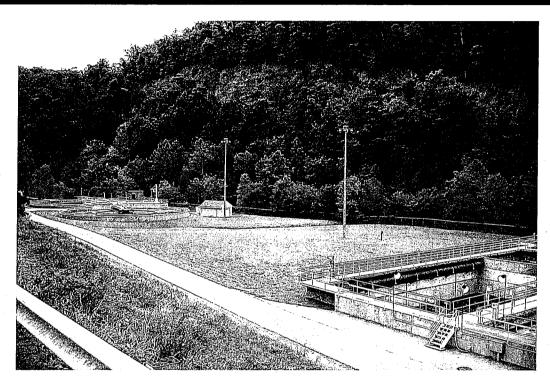
8 2008

BLACKSBURG-VPI SANITATION OHOMOBO **AUTHORITY**

100

LOWER STROUBLES CREEK WASTEWATER TREATMENT PLANTUSAISAW **VPDES Permit Reissuance Application**

VPDES Permit No. VA0060844



Prepared for:

Blacksburg - VPI Sanitation Authority

P.O. Box 52

Blacksburg, VA 24060

Prepared by:



Olver Incorporated 1116 South Main Street Blacksburg, VA 24060 (540) 552-5548 www.olver.com

October 7, 2008 Project Number 10729.03

Form Approved 1/14/99 OMB Number 2040-0086

FORM 2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- **C. Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to space was a state united States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information



- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastwater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions): or
 - Contributes a process wastewater that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designed as an SIU by the control authority.
- **G. Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

BASIC APPLICATION INFORMATION

		TION INFORMATION FOR ALL		
		olate questions A.1 through A.8 of th	nis Baste Application Information pac	ket.
.1	Facilty Information.			
	Facilty Name	Lower Stroubles Creek Wastev	vater Treatment Plant	
	Mailing Address	P.O. Box 52	***************************************	
		Blacksburg, VA 24060		
	Contact Person	Michael Vaught		
	Title	Executive Director		
	Telephone Number	(540) 552-6940		
	Facilty Address	5277 Prices Fork Road		
	(not P.O. Box)	Blacksburg, VA 24060		····
.2.	Applicant Information.	If the applicant is different from the	above, provide the following:	
	Applicant Name	Blacksburg-VPI Sanitation Auti	nority	
	Mailing Address	N/A - same as above		
	Contact Person			
	Title			
	Telephone number			
	·			
	Is the applicant the owner	r or operator (or both) of the treatme	ent works?	
	X owner	Xoperator		
	Indicate whether correspond	ondence regarding this permit should	d be directed to the facility or the app	olicant.
	Xfacility	applicant		
		Permits. Provide the permit numborks (include state-issued permits).	er of any existing environmental perr	nits that have been
	NPDES VA0060844		PSD	
	UIC		Other EPA Sludge VA L 060	0844
	RCRA		Other DEQ State Operating	Air Permit 20911
			ies and areas served by the facility. Prov em (combined vs. separate) and its own	
	Name	Population Served	Type of Collection System	Ownership
	Blacksburg	60,481	Separate	Municipal
	Virginia Tech (on-campus	9,092	Separate	State
-	Mongomery County PSA	1,500	Separate	Municipal
	Total popula	tion served71,073		

FAC	:ILITY	Y NAME AND PERMIT NUMBER:		7	Form Appro	oved 1/14/99	
Low	/er St	troubles Creek Wastewater Treatment Pla	ant; VA0060844		OMB Numb	per 2040-0086	
A.5.	Indi	ian Country					
	a.	Is the treatment works located in Indian Co	ountry?				
		Yes	X No				
	b.	Does the treatment works discharge to a r Indian Country?	eceiving water that is either in	ı Indian Country or that is upstre	∍am from (and	eventually flows	s through
		Yes	X No				
A.6	daily	w. Indicate the design flow rate of the treatn y flow rate and maximum daily flow rate for an anonth of "this year" ocurring no more than	each of the last three years E	ach year's data must be based			
	a.	Design flow rate 9 mgd	t				
ľ		Т	wo Years Ago (9/05 - 8/06)	Last Year (9/06 - 8/07)	This Year (9)/07 - 8/08)	
	b.	Annual average daily flow rate	5.4	5.5	4.8	_	mgd
	c.	Maximum daily flow rate	21.8	13.7	11.4	4	mgd
A.7.		lection System. Indicate the type(s) of colletribution (by miles) of each.	ection system(s) used by the t	reatment plant. Check all that a	apply. Also est	timate the perce	nt
	<u>.</u>	X Separate sanitary sewer				100	%
	_	Combined storm and sanitary sewer	r			0	— %
				•			
ΛQ	Diec	charges and Other Disposal Methods.					
	a.	Does the treatment works discharge effluer	ent to the waters of the U.S.?		X Ye	10	No
	u.	If yes, list how many of each of the following		ne treatment works uses:		·	—
		Discharges of treated effluent	ig typod or and and a p =	to troumont from acces.		1	
		ii. Discharges of untreated or partially t	treated effluent		_	0	
		iii. Combined sewer overflow points	reated emacin			0	
		iv. Constructed emergency overflows (p	orior to the headworks)			1	
		v. Other	nor to the headworks,			N/A	-
		v. Salei		•		i Nee 1	
	b.	Does the treatment works discharge effluer			v	v	N 1-
		impoundments that do not have outlets for	J	5.?	Yes	s <u>X</u>	No
		If yes, provide the following for each surfac	<u>:e impounamen</u> t:				
		Location:					
		Annual average daily volume discharged to	. , ,			mgd	
		Is dischargecontinuous or	intermittent?				
	c.	Does the treatment works land-apply treate	ed wastewater?		Yes	s <u>X</u>	No
		If yes, provide the following for each land a	pplication site:				
		Location:					
		Annual average daily volume applied to site	e:	mgd			
		Is land applicationcontin	inuous orinter	mittent?			
	J.						
,		Does the treatment works discharge or tran works?	isport treated or untreated wa	stewater to another treatment	Yes	s > X	No
		WOLKS:				' · · · · · · · · · · · · · · · · · · ·	_'\`

If yes, describe the mean works (e.g., tank truck, pi		ater from the treatment				
	ıe).	ater nom the treatment	: works is discharged or tra	insported to	the other t	reatme:
Transporter Name						
Mailing Address						
Contact Person						
Title _			***************************************			
Telephone Number	_	_				
For each treatment wor	κs that receives this d	ischarge, provide the	e following:			
Transporter Name						
Mailing Address						
– Contact Person						
Title						
Telephone Number						
If known, provide the NPD	ES permit number of the	e treatment works that i	receives this discharge.			
Provide the average daily	low rate from the treatm	nent works into the rece	eiving facility.	`		mgd
Does the treatment works A.8.a through A.8.d above				Yes	xı	No
If yes, provide the following	j for each disposal meth	nod:				
Description of method (inc	uding location and size	of site(s) if applicable):				

	ϓ NAME AND PERMIT ۱ Stroubles Creek Wastev	NUMBER: water Treatment Plant; VA006084	44			Form Approved 1/14/99 OMB Number 2040-0086
	VASTEWATER DISCH					
: If	you answered "yes" to	o question A:8:a; complete question	ns/A:9 (hrough A:12 or	nce for each	i outfall (includ	ding bypass points) through wi
et P	fluent is discharged Խօ ant B, "Additional Applica	onot include information on combine ation information for Applicants with	ed sewer overflows in a la Design Flow Greate	his sections or than or Eq	If you answer ual to 0.1 mgd.	ed "no" to question A.8:a. g
	escription of Outfall.	004				
a.		<u>001</u>		- 1000		
b.	. Location	Blacksburg (City or town, if applicable)		24060 (Zip Cod	ode)	
		Montomery		Virgini	·	
		(County)		(State		
		37° 11' 29" N			' 34" W	
		(Latitude)		(Longitu	.de)	
C.	Distance from sho	ore (if applicable)	10	ft.		
d.	Depth below surfa	ace (if applicable)	0	ft.		
e.	Average daily flow	v rate	4.8	mgd	(Septemi	ber 2007- August 2008)
f.	Does this outfall h	ave either an intermittent or				
	periodic discharge	·?	Yes	X	No	(go to A.9.g)
	Number of times r	per year discharge occurs:				
	Average duration of	of each discharge:			· 	
	Average flow per o	discharge:			mgd	
	Months in which di	ischarge occurs:			 ,	
g.	Is outfall equipped	with a diffuser?	Yes	X	No	
10. De	escription of Receiving	յ Waters				
a.	Name of receiving	water New River				
b.	Name of watershee	d (if known) Ne	w River Basin VAW	<u>V-N22R</u>		
	United States Soil	Conservation Service 14-digit w	vatershed code (if kr	nown):		
C.	Name of State Ma	nagement/River Basin (if known	ı): <u>New Ri</u>	iver Basin		
	United States Geo	ological Survey 8-digit hydrologic	cal cataloging unit cc	ode (if know	vn):	
d.	Critical low flow of	receiving stream (if applicable):	:			
	acute 670	cfs (1Q10)	chronic	865	cfs (7Q10))
e.	Total hardness of	receiving stream at critical low fl	low (if applicable):		123	_mg/l of CaCO₃

FACILITY NAME AND PERMIT NUMBER:

REFER TO THE APPLICATION OVERFIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

END OF PART A.

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	١	orintian of Outfall					
9 D	esc	cription of Outfall.					
a.	•	Outfall number	002 (Bypass)				
b.		Location	Blacksburg		24060		
			(City or town, if applic	cable)	(Zip Co	de)	
			Montgomery		Virgini		
			(County)		(State	•	
			37° 11' 29" N (Latitude)		80° 31' (Longitu	34" W	
			(Editidas)		(Longito	uc)	
C.		Distance from shore (if applicable)	10	ft.		
d.		Depth below surface	(if applicable)	0	ft.		
e.		Average daily flow rat	e	0	mgd		
f.		Does this outfall have	either an intermittent o	or			
		periodic discharge?		X Ye	\$	No	(go to A.9.g)
		portouro arcortargo.				—'''	(90 to 7 1.0.9)
		Number of times per y	/ear discharge occurs:	0 - The bypass will no bypasses to da	-	d for emer	gency; there have been
		, ,					
		Average duration of ea					
		Average duration of ea	ach discharge:			— mad	
		Average duration of each	ach discharge: harge:			 mgd	
		Average duration of ea	ach discharge: harge:			mgd 	
g.		Average duration of each	ach discharge: harge: narge occurs:	Yes		mgd mgd No	
		Average duration of each Average flow per discharge Months in which discharge list outfall equipped with	ach discharge: harge: harge occurs: h a diffuser?				
		Average duration of each Average flow per discharge Months in which discharge flow per di	ach discharge: harge: harge occurs: h a diffuser?				
	esc	Average duration of each Average flow per discharge Months in which discharge list outfall equipped with	ach discharge: harge: harge occurs: h a diffuser? aters	Yes			
0. De	esc	Average duration of each Average flow per disc. Months in which disched Is outfall equipped with cription of Receiving Wather Name of receiving wather the state of the state	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv	Yes	S X		
D. De	esc	Average duration of each Average flow per discharge	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv	Yes	S X		
0. D€ a. b.	esc	Average duration of each Average flow per discharge	ach discharge: harge: harge occurs: h a diffuser? aters ter New Rivers f known) hservation Service 14-c	Yes New River Basin Vidigit wastershed code (if	X VAW-N22R known):		
0. De a.	esc	Average duration of each Average flow per discharge	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv f known) hservation Service 14-cement/River Basin (if k	Yes New River Basin digit wastershed code (if	X VAW-N22R known):	No	
0. De a. b. c.	esc	Average duration of each Average flow per disciplination of the Average Water State of the Average Water State Soil Corner of State Manage United States Geological Average flow per disciplination of the Average fl	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv f known) hservation Service 14-ce ement/River Basin (if k	Yes New River Basin Yes digit wastershed code (if snown): New New ological cataloging unit of	X VAW-N22R known):	No	
0. De a. b.	esc	Average duration of each Average flow per discharge	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv f known) hservation Service 14-ce ement/River Basin (if k	Yes New River Basin Yes digit wastershed code (if snown): New New ological cataloging unit of	X VAW-N22R known):	No	
0. D€ a. b. c.	esc	Average duration of each Average flow per disciplination of the Average Water State of the Average Water State Soil Corner of State Manage United States Geological Average flow per disciplination of the Average fl	ach discharge: harge: harge occurs: h a diffuser? aters ter New Riv f known) hservation Service 14-ce ement/River Basin (if k	Yes New River Basin Yes digit wastershed code (if snown): New New ological cataloging unit of	X VAW-N22R known):	No	10)

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Lower Stroubles Creek Wastewater Treatment Plant;

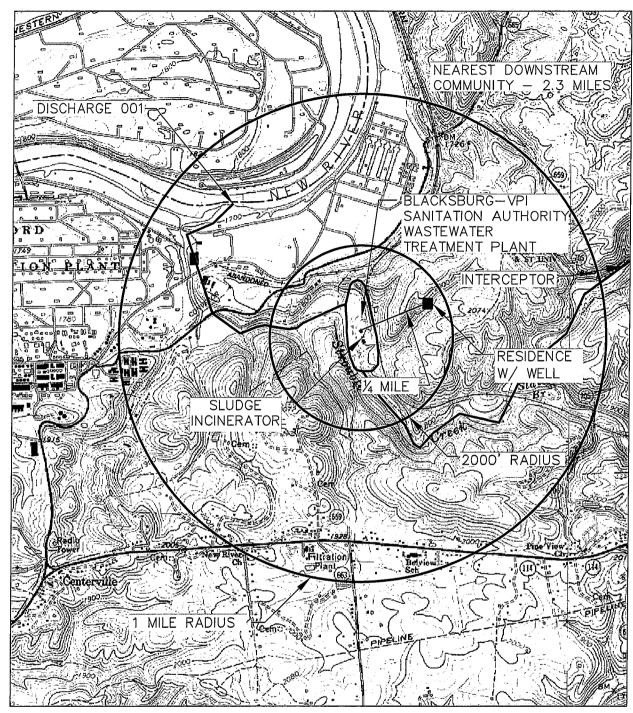
VA0060844

Form Approved 1/14/99

OMB Number 2040-0086

BASIC APPLICATION INFORMATION

	B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN C AL TO 0.1 MGD (100,000 gallons per day).)R
	olicanits with a design flow rate ≥0.4 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).	
B.1.	nflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. estimated: < 200,000 gpd Briefly explain any steps underway or planned to minimize inflow and infiltration. The Town of Blacksburg, VPI, and the Authority have ongoing collection system operations and maintenance programs o address inflow and infiltration.	
B.2.	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property foundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.) See attached Site Location Map The area surrounding the treatment plant, including all unit processes. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is descharged from the treatment plant. Include outfalls from bypass piping, if applicable. Each well where wastewater from the treatment plant is injected underground. Well, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.	ζ,
B.3. B.4.	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, notiding all bypass piping and all ackup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., hlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily ow rates between treatment units. Include a brief narrative description of the diagram. See attached Flow Schematic Operation/Maintenance Performed by Contractor(s). The water balance description of the diagram. The water balance daily average flow rates at influent and discharge points and approximate daily ow rates between treatment units. Include a brief narrative description of the diagram. See attached Flow Schematic operation/Maintenance Performed by Contractor(s). The water balance must show daily average flow rates at influent and discharge points and approximate daily over rates at influent and discharge points and approximate daily ow rates between treatment units. Include a brief narrative description of the diagram. See attached Flow Schematic operation/Maintenance Performed by Contractor(s). The water balance must show daily average flow rates at influent and discharge points and approximate daily over rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate daily ow rates at influent and discharge points and approximate dai	
	yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional ages if necessary). ame: lailing Address: elephone Number: esponsibilities of Contractor:	
	cheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or incompleted plans for improvements that will affect the wastewater treatement, effluent quality, or design capacity of the treatment works. If the eatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 or each. (If none, go to question B.6.) N/A List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.	
	Indicate whether the planned improvements or implementation schedule ar required by local, State, or Federal agencies. YesNo	i



MAP TAKEN FROM NATIONAL GEOGRAPHIC TOPO, BLACKSBURG, VIRGINIA

BLACKSBURG - VPI SANITATION AUTHORITY VPDES PERMIT APPLICATION - FORM 2A SITE LOCATION MAP

SEPT 2008 ∖Fig 1.dwg



FACILITY NAME AND PERMIT NUM	/IBER:									Form Approved 1	/14/99
Lower Stroubles Creek Wastewate c. If the answer to B.5.b is "Yes,"					imum dai	ly inflow	rate (if an	nlicable)		OMB Number 20	40-0086
C. If the answer to B.S.D is Tes,	Differry 0	escribe,	including	new max	iiiiuiii uai	iy imow i	iate (ii ap	plicable)	•		
d. Provide dates imposed by any improvements planned indepe as accurately as possible.				ederal ag	gencies, ir						
				Schedu	le				mpletion		
Implementation Stage			M	IM/DD/Y`	YYY			MM/DD/	YYYY		
- Begin construction				_//	·		_	/	_/		
- End construction									1		
- Begin discharge											
- Attain operational level							-				
e. Have appropriate permits/clear Describe briefly:	rances co	oncerning	g other Fe	deral/Sta	ate require	ements be	een obtai	ned?		_Yes	_No
B.6. EFFLUENT TESTING DA Applicants that discharge to wa required by the permitting authorities section. All information rep these data must comply with Q not addressed by 40 CFR Part four and one-half years old.	aters of the ority for experience of the orited management of the orited management of the original and the	ne US mi each outf ust be ba quiremer	ust provider all through the desired on desi	e effluent <u>h which e</u> ata collec CFR Part	t testing d effluent is sted through 136 and o	ata for th <u>discharge</u> gh analys other app	<u>ed</u> . Do n ses condu ropriate (ot include icted usii QA/QC re	e informatior ng 40 CFR F equirements	on combined sewer art 136 methods. If for standard metho	er overflows in In addition, ds for analytes
Outfall number: 001	**Disso		ygen valı						onthly Ave	rage Values repor MRs	ted on DMRs
POLLUTANT		5.0	UM DAILY			VERAGI	E DAILY	DISCHA	RGE		
	Conc.	Units	HARGE Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
CONVENTIONAL AND NONCON	1 - 4-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			<u>-1</u>		122	100000		New Table 200 Take Table 1		1000円のおける場合の
AMMONIA (as N)	<0.2	mg/L	<8.6	kg/d	<0.2	mg/L	<3.6	kg/d	3	EPA 350.1	0.2 mg/L
CHLORINE (TOTAL RESIDUAL,	10.2	mg/L	10.0	Rgru	,U,L	mg/L	10.0	- Kg/u		Li A 000.1	U.Z mg/L
TRC) *	12	μg/L	314	g/d	1.4	μg/L	27.6	g/d	13,152	EPA 330.1	0.1 mg/L
DISSOLVED OXYGEN **	9	mg/L	299	kg/d	7.6	mg/L	150	kg/d	1,096	EPA 360.1	1.0 mg/L
TOTAL KJELDAHL NITROGEN											
(TKN)	1.2	mg/L	51.8	kg/d	1.1	mg/L	20	kg/d	3	EPA 350.1	0.2 mg/L
NITRATE PLUS NITRITE NITROGEN	22.3	mg/L	962	kg/d	12.6	 mg/L	229	kg/d	3	SM 18/4500 NO3F	0.1 mg/L
OIL and GREASE	<10	mg/L	<432	kg/d	<10	mg/L	<182	kg/d	3	EPA 1664 A	10 mg/L
PHOSPHORUS (Total)	3.18	mg/L	137	kg/d	3.1	mg/L	56	kg/d	3	SM 18/ 4500- P E	0.05 mg/L
TOTAL DISSOLVED SOLIDS (TDS)	328	mg/L	14,200	kg/d	315	mg/L	5,720	kg/d	3	SM 18/ 2540 C	10 mg/L
OTHER /											
				FND	OF PA	RTR					

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT N	UMBER:	Form Approved 1/14/99
Lower Stroubles Creek Wastew	ater Treatment Plant; VA0060844	OMB Number 2040-0086
BASIC APPLICATI	ON INFORMATION	
PART CATEGORIE CATION		
All applicants must complete the	Certification Section. Refer to instruc	stions to determine who is an officer for the purposes of this certification. All
applicants must complete all appli	cable sections of Form 2A, as explains statement.	ined fin the Application Overview. Indicate below which parts of Form 2A you have applicants confirm that they have neviewed Form 2A and finave completed all sections.
	histapolicationals submitted:	
la dia da colejala a a da a 61	0A b	al and anti-relation
•	Form 2A you have completed an n Information packet Supplem	d are submitting: nental Application Information packet
Badio / ipplicatio		Part D (Expanded Effluent Testing Data)
	t	Part E (Toxicity Testing: Biomonitoring Data)
	<u> </u>	Part F (Industrial User Discharges and RCRA/CERCLA Wastes)
		Part G (Combined Sewer Systems)
ALLARPHICANTISMUSTICON	MPLETETHE FOLLOWING GET	RTIEIGATION
25022220		ere prepared under my direction or supervision in accordance with a system
		te the information submitted. Based on my inquiry of the person or persons who
		the information, the information is, to the best of my knowledge and belief, true, so for submitting false information, including the possibility of fine and imprisonment
for knowing violations.	o man more and organical persamon	, and the state of
Name and official title	Michael Vaught, Executiv	e Director
Signature	Michael E.	laught
Telephone number	(540) 552-6940	·
Date signed	10/06/2008	
Upon request of the permitting auti	• •	ormation necessary to assess wastewater treatment practices at the treatment works

SEND COMPLETED FORMS TO:

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the effections on the cover page to determine whether this section applies to the treatment works

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

			JM DAILY HARGE	11000	A	VERAGI	E DAILY D	ISCHAF	RGE	ANALYTICAL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	METHOD	ML/MDL
METALS (TOTAL RECOVERABLE),	CYANIDI	E, PHEI	VOLS, AN	ID HAF	RDNES	S.					
ANTIMONY	<100	μg/L	<4,320	g/d	<100	μg/L	<1,820	g/d	3	EPA 200.7	100 μg/L
ARSENIC	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
BERYLLIUM	Waive	r Requ	ested								
CADMIUM	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
CHROMIUM	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
COPPER	13	μg/L	560	g/d	<11	μg/L	<200	g/d	3	EPA 200.7	10 μg/L
EAD	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
MERCURY	<0.2	μg/L	<8.6	g/d	<0.2	μg/L	<3.6	g/d	3	EPA 245.1	0.2 μg/L
IICKEL	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
ELENIUM	<50	μg/L	<2,160	g/d	<50	μg/L	<908	g/d	3	EPA 200.7	50 μg/L
ILVER	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 200.7	10 μg/L
HALLIUM	Waive	r Requ	ested								
INC	55	μg/L	2,370	g/d	43	μg/L	781	g/d	3	EPA 200.7	10 μg/L
YANIDE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 335.2	10 μg/L
OTAL PHENOLIC COMPOUNDS	Waive	r Requ	ested						_	-	
ARDNESS (AS CaCO ₃)	140	mg/L	6,040	kg/d	127	mg/L	2,310	kg/d	3	EPA 130.2	1 mg/L
se this space (or a separate sheet to	provide	informa							by the p	ermit writer.	

OMB Number 2040-0086

Lower Stroubles Creek Wastewater In						-£45-11	ited Ctete	- \		OMB.Number	2040-0086
Outfall number: 001 (Complete once POLLUTANT	for each o	MAXIM	scnarging of JM DAILY HARGE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 12. 14. 14. 1	DAILY D	. H. S. T.	RGE		
VOLATILE ORGANIC COMPOUNDS.	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
ACROLEIN	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
ACRYLONITRILE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
BENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
вкомобокм	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
CARBON TETRACHLORIDE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
CHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
CHLORODIBROMO-METHANE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
CHLOROETHANE	Waive	r Requ	ested								
2-CHLORO-ETHYLVINYL ETHER	Waive	r Requ	ested	I							
CHLOROFORM	43.6	μg/L	1,880	g/d	25.8	μg/L	469	g/d	3	EPA 624	10 μg/L
DICHLOROBROMO-METHANE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
1,1-DICHLOROETHANE	Waive	r Requ	ested	· · · · ·				· · · · · ·			
1,2-DICHLOROETHANE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
TRANS-1,2-DICHLORO-ETHYLENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
1,1-DICHLOROETHYLENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
1,2-DICHLOROPROPANE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
1,3-DICHLORO-PROPYLENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
ETHYLBENZENE 	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
METHYL BROMIDE	< 10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
METHYL CHLORIDE	Waive	r Requ	ested	Г	Ţ	ı		1	ı	T	
METHYLENE CHLORIDE	<20	μg/L	<863	g/d	<20	μg/L	<364	g/d	3	EPA 624	20 μg/L
1,1,2,2-TETRACHLORO-ETHANE	Waiver	Requ	ested	Τ	- 1	····	ı	Т	I	<u> </u>	
TETRACHLORO-ETHYLENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 624	10 μg/L
TOLUENE	< 10	μg/L	<432	g/d	<10	µg/L	<182	g/d	3	EPA 624	10 μg/L

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99

Form Approved 1/14/99 OMB Number 2040-0086

Outfall number: 001 (Complete once for e	ach outfa	ıll discha	rging efflue	nt to wa	ters of th	ne United	l States.)				
POLLUTANT			IUM DAILY HARGE		,	VERAG	E DAILY [DISCHA	RGE		
	Conc	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
3,4 BENZO-FLUORANTHENE	Waive	er Requ	uested								
BENZO(GHI)PERYLENE	Waive	er Requ	uested								
BENZO(K)FLUORANTHENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
BIS (2-CHLOROETHOXY) METHANE	Waive	er Requ	uested								
BIS (2-CHLOROETHYL)-ETHER	<10	μg/L	<432	g/d	<10	µg/L	<182	g/d	3	EPA 625	10 μg/L
BIS (2-CHLOROISO-PROPYL) ETHER	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
BIS (2-ETHYLHEXYL) PHTHALATE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
4-BROMOPHENYL PHENYL ETHER	Waive	r Requ	ested	_							_
BUTYL BENZYL PHTHALATE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
2-CHLORONAPHTHALENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
1-CHLORPHENYL PHENYL ETHER	Waive	r Requ	ested								
CHRYSENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
DI-N-BUTYL PHTHALATE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
DI-N-OCTYL PHTHALATE	Waive	r Requ	ested								
DIBENZO(A,H) ANTHRACENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
1,2-DICHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
1,3-DICHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
1,4-DICHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
3,3-DICHLOROBENZIDINE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
DIETHYL PHTHALATE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
DIMETHYL PHTHALATE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
2,4-DINITROTOLUENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
2,6-DINITROTOLUENE	Waive	r Requ	ested								
1,2-DIPHENYLHYDRAZINE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L

Form Approved 1/14/99 OMB Number 2040-0086

Lower Stroubles Creek Wastewater Treat							L			OMB Number 2	040-0086
Outfall number: 001 (Complete once for POLLUTANT	r each ou		narging efflu JM DAILY	ent to w	1			•			<u> </u>
			HARGE	T .	A'	VERAGE 	E DAILY D	ISCHA	RGE	ANALYTICAL	BAL (BAD)
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	METHOD	ML/MDL
FLUORANTHENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 µg/l
FLUORENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/l
HEXACHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/l
HEXACHLOROBUTADIENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
HEXACHLOROCYCLO-PENTADIENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
HEXACHLOROETHANE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
INDENO(1,2,3-CD)PYRENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
ISOPHORONE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
NAPHTHALENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	_10 μg/L
NITROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
N-NITROSODI-N-PROPYLAMINE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
N-NITROSODI-PHENYLAMINE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
PHENANTHRENE	Waive	r Reque	ested	<u> </u>						·	
PYRENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
1,2,4-TRICHLOROBENZENE	<10	μg/L	<432	g/d	<10	μg/L	<182	g/d	3	EPA 625	10 μg/L
Use this space (or a separate sheet) to p	provide i	nformati	on on othe	r base	-neutra	l compo	ounds rec	uested	l by the po	ermit writer.	
Use this space (or a separate sheet) to	orovide i	nformati	on on othe	r pollu	tants (e	.g., pes	ticides) r	equest	ed by the	permit writer.	
	• .		END O	F PA	RT D.				<u></u>		

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:		7	Form Approved 1/14/99
Lower Stroubles Creek Wastewater Trea SUPPLEMENTAL APPL	The board of the second sections and the Control of the Second of March 1997 and the Second of the S		OMB Number 2040-0086
PARTIE TOXICITY TIESTING DA			
POTWs meeting one or more of the following	ng orteria musu provide the results of	Whole Gilben (toxiolly lesis for acute	or enonie loxicity for each of the
facility's discharge points: (1) POTWS with a required to have one under 40 OFR Part 40 or At a minimum, these results in the	adesgrapow rate greater than or edu 08)), or 3). POTWs required by the per	range in the state of the control of	rearmandprogram (or mose draware) se parameters
species) or the results from four te	ests performed at least annually in the	four and one half years of or to the a	ipplication, provided the results show
on combinded sever overflows in t	nor seem and remond example design and an instance of the content	Mast go geseg ou gelst collected (luto) Blank an the letter ou bestville vers	irdiluiton. Do not indude information igh analysis conducted using 40 GAR
Partifies methods. Infactition, tals for standard methods for analytes r	selata musicomply with ©4/06 requi not addressed by 40 GFR Part 166 any other whole ciliuent (extelly tests		respectorise developments
conducted during the past four and	i one-hali yeans revealed toxioliy, prov	Alger stata integration on the estrem desired of the state of the stat	va (oxigijā) or suvā kasalija ors (oxigijā). Vaistas (oxigijā) or suvā kasalija ors (oxigijā)
reducation evaluation, if one was o olfryou have already submitted an	y of the information requested in Pari	12. yourneed not submit it egain. Rat	hen, provide the information
requested in question E.44 for previo test summaries are available that o	ously submitted information. It EPA i contain all of the information requeste	nethods.Were not used, reporting read below, they may be submitted in pla	sons for using alternate memors. In celof Partie.
limo: biomonitorno; data lis required, do not c complete.	complete Part E. Refer to the Applica	tion Overview for directions on which	other sections of the form to
E.1. Required Tests.			
	er of whole effluent toxicity tests cond	uotod in the nact four and and half ve	ore
	_ acute	ucted in the past lour and one-hair ye	ais.
E.2. Individual Test Data Complete th	ne following chart <u>for each whole efflu</u>	ant toxicity tast canducted in the last	four and an half years. Allow one
	es constitutes a test). Copy this page		
	Test number:	Test number:	Test number:
a. Test information. Se	ee Part E.4.	· ·	
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods fol	llowed.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection m	nethod(s) used. For multiple grab	samples, indicate the number of	grab samples used.
24-Hour composite			
Grab .			
d Indicate where the sample w	vas taken in relation to disinfection	n. (Check all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:			F	Form Approved 1/14/99
Lower Stroubles Creek Wastewater Treatment Plant; VA00	60844		OMB N	
Test number	:	Test number:	····	Test number:
e. Describe the point in the treatment proce	ss at which	the sample was collecte	d.	
Sample was collected:			•	
f. For each test, include whether the test wa	as intended	to assess chronic toxicity	/, acute	e toxicity, or both.
Chronic toxicity				
Acute toxicity				
g. Provide the type of test performed.		•	•	
Static				
Static-renewal				
Flow-through				
h. Source of dilution water. If laboratory wa	ter, specify	type; if receiving water,	specifiy	/ source.
Laboratory water				
Receiving water				
i. Type of dilution water. If salt water, specif	fy "natural"	or type of artificial sea sa	its or b	orine used.
Fresh water				
Salt Water		·		
j. Give the percentage effluent used for all c	oncentratio	ns in the test series		
k. Parameters measured during the test. (S	tate whethe	er parameter meets test r	nethod	s specifications)
рН				
Salinity				
Temperature				
Ammonia				
Dissolved oxygen				
I. Test Results			<u>+</u>	
Acute:				
Percent survival in	%		%	%
LC ₅₀				
95% C.I.	%		%	%
Control percent survival	%		%	%
Other (describe)				

FACILITY NAME AND PERMIT NUMBER:			Form Approved 1/14/99
Lower Stroubles Creek Wastewater Treatment Plant; VA Chronic	40060844		OMB Number 2040-0086
NOEC	%	%	9,
IC ₂₅	%	%	9/
Control percent survival	%	%	9/
Other (describe)			
m. Quality Control/Quality Assurance	L		
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
Yes X No If yes, d	describe:		
E.4. Summary of Submitted Biomonitoring information, or information regarding the dates the information was submitted to the See attached sheet that shows submitted to the second sheet that shows submitted to the second sheet that shows submitted to the second sheet s	cause of toxicity, within the permitting authority and	e past four and one I a summary of the	e-half years, provide the results.
	(MM/DD/YYYY)	•	
Summary of results: (see instructions) See attached sheet that provides a sum	nmary of test results.		
	END OF PART E.		
REFER TO THE APPLICATION OVER	그는 보면하는 그 걸었습니다. 그런 그 가능경쟁 선생들은 사용했다.	er integration of the state of the control of the c	R PARTS OF FORM

Blacksburg-VPI Sanitation Authority VA0060844

E.4. Summary of Submitted Biomonitoring Test Information Outfall 001

Event	Dates	Vertebrate	Invertebrate	LC ₅₀ (%)	NOEC (%)	Survival in 100%
Annual	10/21-10/23/04		Х	>100%		100%
	10/19-1026/04	X			100%	100%
Annual	10/12-10/14/05		X	>100%		100%
	10/11-10/18/05	Х			100%	100%
Annual	9/27-9/29/06		Х	>100%		100%
	9/25-10/2/06	Х			100%	100%
		-				
Annual	11/1-11/3/07		Х	>100%		100%
	10/9-10/16/07	X			100%	100%

Form Approved 1/14/99 OMB Number 2040-0086

	and the state		USER DISCHARO	1.数数子并继续的 经证证证券的	391.0	생각하다 하시 그 사람이 되었다는 것 같아 그 사람이 되었다. 그 사람들이 모르게 하는 것이다.	er remedial wastes must complete Part
	IERAL	L INFORMAT	ION:				
F.1.		reatment Progra	m. Does the treatmen	nt works have, o	r is it su	ect to, an approved pretreatment pro	ogram?
F.2.		-	Industrial Users (SIUs		ai Indus	al Users (CIUs). Provide the number	er of each of the following types of
	a.	Number of no	n-categorical SIUs.	1	*	rrently discharges via VPDES Pe	rmit
	b.	Number of CI	Us.	4			
Supp provi	y the f	ollowing inform	RIAL USER INFO ation for each SIU. It uested for each SIU.	more than one	SIU die	harges to the treatment works, co	opy questions F.3 through F.8 and
F.3.	_	ificant Industria es as necessary.	l User Information. F	Provide the nam	e and ac	ress of each SIU discharging to the	treatment works. Submit additional
	Nam	e:	Federal Mogul Cor	poration			
	Mailii	ng Address:	Rt. 460 South Main	Street			
			Blacksburg, VA 24	060			
F.5.		cipal Product(s)	ning and plating met			al processes and raw materials that	affect or contribute to the SIU's
	Princ	ipal product(s):	Motor parts and ac	cessories			···········
	Raw	material(s):	Steel and other me	tal components	3		
F.6.	Flow a.		and whether the disch	•	us or int	mittent.	ed into the collection system in gallons
	b.					volume of non-process wastewater toontinuous or intermittent.	flow discharged into the collection
		6,560	_gpd (<u>X</u>	_continuous or	ir	ermittent)	
₹.7.	Pretro	eatment Standa	rds. Indicate whether	the SIU is subje	ct to the	ollowing:	
	a.	Local limits		<u>x</u> ,	⁄es	No	
	b.	Categorical pr	etreatment standards	X_Yes		No	
		_	l pretreatment standar art A (Common Metal	-	ory and	ubcategory?	**************************************

1	ITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Lower	Stroubles Creek Wastewater Treatment Plant; VA0060844 Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has	OMB Number 2040-0086
F.8.	upsets, interference) at the treatment works in the past three years?	the STO caused of contributed to any problems (e.g.
	Yes X No If yes, describe each episode.	
RCRA	HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPE	LINE:
		10001
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three years receive pipe?	ed RCRA nazardous waste by truck, rail, or dedicate
	Yes X No (go to F.12.)	
	100 <u></u>	
F.10.	Waste Transport. Method by which RCRA waste is received (check all that apply):	
F. 1U.		
	Truck Rail Dedicated Pipe	
		45
F.11.	Waste Description. Give EPA hazardous waste number and amount (volume or mass,	
	EPA Hazardous Waste Number Amount	<u>Units</u>
	LA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE AC	TION
WASI	EWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
F.12.	Remediation Waste. Does the treatment works currently (or has it been notified that it v	vill) receive waste from remedial activities?
r, 12,		viii) receive waste nom remedia activities:
		tone alte
	Provide a list of sites and the requested information (F.13 - F.15.) for each current and fu	ture site.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or othe	r remedial waste originates (or is expected to
. 10.	originate in the next five years).	Tomodial waste originates (or to expected to
	Federal Mogul Corporation - RCRA groundwater remediation - currently discharges	s via VPDES permit but
	facility has retained an indirect discharge permit for possible future use	
F.14.	Pollutants. List the hazardous constituents that are received (or are expected to receive	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary).	
	Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L.	
15.	Waste Treatment.	
	a. Is this waste treated (or will it be treated) prior to entering the treatment works?	
	X Yes No	
	If yes, describe the treatment (provide information about the removal efficiency):	
	Federal Mogul Corporation - Activated carbon treatment system	
	rederal wogul Corporation - Activated Carbon treatment system	
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
	Continuous X Intermittent If intermittent, describe	e discharge schedule.
	Discharge based on	groundwater levels and pump activation.
SEE L	END OF PARTIES	
	REFER TO THE APPLICATION OVERFIEW TO DETERMINE WH	ICH OTHER PARTS OF FORM
	2A.YOU!MUST.COMPLETE:	

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 7550-22.

Form Approved 1/14/99 OMB Number 2040-0086

	IERAL INFORMA	TION:		1000				an in X . Ye	
			Provide at the second part of th				and the second s	A Difference in the control of the c	
	Pretreatment Pro	gram. Does the treatmer	nt works have, or i	is it subje	ect to, an app	proved pretre	atment progra	ım?	
	XYes	No							
									. u
	•	ant Industrial Users (SIUs t discharge to the treatme	, -	Industria	al Users (CIU	Js). Provide	the number of	reach of the	following types
		non-categorical SIUs.	1	* cu	rrently disc	harges via V	/PDES Permi	t	
	b. Number of	•	4		•	Ū			
		TRIAL USER INFO							
		rmation for each SIU. If equested for each SIU.							
/10	ue une imormation i	equested for each Sio.							Market in the safety save
	Significant Indus	rial User Information. P	Provide the name	and addr	ress of each	SIU discharg	ing to the trea	tment works.	Submit additio
	pages as necessa	y.				_	_		
	Name:	Nuvotronics, LLC							
	Mailing Address:	3150 State Street							
	Industrial Process	Blacksburg, VA 240		s that aff	fect or contrib	oute to the SI	U's discharge		
			dustrial processes				U's discharge	•	
	Develops and ma	es. Describe all of the in	dustrial processes	d optica	al componer	nts			ute to the SIU's
	Develops and ma	es. Describe all of the in nufactures advanced mi s) and Raw Material(s).	dustrial processes croelectronic an Describe all of th	nd optica	al componer	nts			ute to the SIU's
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	Principal Product discharge. Principal product(s Raw material(s): Flow Rate. a. Process wa	ses. Describe all of the innufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures. Various microelectromagnetics of the control of the contro	dustrial processes croelectronic an Describe all of th ronic and optical on wafers ate the average da arge is continuous	ne pincipa l compoi	al processes nents me of proces mittent.	and raw mat	erials that affe	ect or contribu	
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	Principal Product discharge. Principal product(see Raw material(s): Flow Rate. a. Process was per day (grown 5,620) b. Non-process system in control 1,000 Pretreatment Starra. a. Local limits	ses. Describe all of the innufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures. Secondary Material (s). Various microelectrics Optical fibers, silicon stewater flow rate. Indicated and whether the discharged (gpd) and winufactures are made and silicon gpd (gpd) and winufactures advanced to the innufactures advanced minufactures advanced m	dustrial processes croelectronic and Describe all of the ronic and optical on wafers ate the average darge is continuous continuous or X and cate the average whether the disch continuous or	aily volures or intermore arge is content intermore.	al processes nents me of proces mittent, nittent) volume of no continuous or mittent)	and raw mat	erials that affe	ect or contribu	tion system in g
	Principal Product discharge. Principal product(see Raw material(s): Flow Rate. a. Process was per day (grown 5,620) b. Non-process system in control of the system in control of the system and the system in the	ses. Describe all of the innufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures advanced minufactures. Various microelectrons	Describe all of the continuous or whether the disch continuous or the SIU is subject to X Yes	aily volumes or interrection interrections.	al componer al processes nents me of proces mittent. nittent) volume of no continuous or mittent) bllowing:NoNo	and raw mat	erials that affe	ect or contribu	tion system in g

	ITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Lower	Stroubles Creek Wastewater Treatment Plant; VA0060844	OMB Number 2040-0086
F.8.	Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has upsets, interference) at the treatment works in the past three years?	the SIO caused or contributed to any problems (e.g
	Yes X No If yes, describe each episode.	
RCR/	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPEI	LINE:
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three years receive	ed RCRA hazardous waste by truck, rail, or dedicate
	pipe?	
	YesX _No (go to F.12.)	
10.	Waste Transport. Method by which RCRA waste is received (check all that apply):	
	TruckRailDedicated Pipe	
=.11.	Waste Description. Give EPA hazardous waste number and amount (volume or mass,	specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
	LA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE AC' 'EWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	IION
		ill) was also was to from some dial activities?
.12.	Remediation Waste. Does the treatment works currently (or has it been notified that it w X Yes (complete F.13 through F.15.)	nii) receive waste nom remedial activities :
	Provide a list of sites and the requested information (F.13 - F.15.) for each current and full	ture site.
	March Origin. Describe the site and two offsellite at which the OFDOLA/DODA/or at he	was adial was to avising too /ox in avacated to
.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).	Terriediai waste originates (or is expected to
	Federal Mogul Corporation - RCRA groundwater remediation - currently discharges	s via VPDES permit but
	facility has retained an indirect discharge permit for possible future use	
:.14.	Pollutants. List the hazardous constituents that are received (or are expected to receive known. (Attach additional sheets if necessary).	d). Include data on volume and concentration, if
.14.	, ,	d). Include data on volume and concentration, if
.14.	known. (Attach additional sheets if necessary).	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary).	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L.	d). Include data on volume and concentration, if
÷.14. ÷.15.	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency):	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency): Federal Mogul Corporation - Activated carbon treatment system	d). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency): Federal Mogul Corporation - Activated carbon treatment system b. Is the discharge (or will the discharge be) continuous or intermittent?	
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency): Federal Mogul Corporation - Activated carbon treatment system b. Is the discharge (or will the discharge be) continuous or intermittent? Continuous X Intermittent If intermittent, described	

Form Approved 1/14/99 OMB Number 2040-0086

					A/CERCLA WASTES rs or which receive RCRA, CERCLA, or other remedial wastes must complete Par	t
	ERAL	INFORMAT	ION:			E.
F.1.		reatment Progra	am. Does the treatment	works have, or is i	s it subject to, an approved pretreatment program?	
F.2.		-	Industrial Users (SIUs) ischarge to the treatmen		Industrial Users (CIUs). Provide the number of each of the following types of	
	a.	Number of no	n-categorical SIUs.	1	* currently discharges via VPDES Permit	
	b.	Number of Cl	Us.	4	_	
SIGN	IIFIC <i>A</i>	ANT INDUSTI	RIAL USER INFOR	MATION:		
Suppl	y the f	ollowing inform		more than one SIL	IU discharges to the freatment works, copy questions F:3 through F.8 and	
F.3.	_	ificant Industria s as necessary.	l User Information. Pr	ovide the name and	nd address of each SIU discharging to the treatment works. Submit additional	
	Name	e:	Wolverine Gasket C	ompany - Cedar R	Run Plant	
	Mailir	ng Address:	210 Industrial Park F	Road, SW		
			Blacksburg, VA 2406	30		
F.5.		ipal Product(s)	3479 - Production of games and Raw Material(s).		e pincipal processes and raw materials that affect or contribute to the SIU's	
	Princi	ipal product(s):	Rubber Coated Stee	l Coil		
	Rawı	material(s):	Steel, stainless stee	l and aluminum co	coils; nitrile butadiene rubber	
F.6.	Flow a.	Process waste	and whether the discha			
	b.				e daily volume of non-process wastewater flow discharged into the collection arge is continuous or intermittent.	
		1,360	_gpd (<u>X</u>	_continuous or	intermittent)	
F.7.	Pretre	eatment Standa	rds. Indicate whether the	he SIU is subject to	to the following:	
	a.	Local limits		X_Yes	No	
	b.	Categorical pr	etreatment standards	X_Yes	No	
)			al pretreatment standard egory A (Steel Basis) a		y and subcategory? y C (Aluminum Basis) 40 CFR 465	

	ITY NAME AND PERMIT NUMBER: r Stroubles Creek Wastewater Treatment Plant; VA0060844	Form Approved 1/14/99 OMB Number 2040-0086
F.8.	Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has upsets, interference) at the treatment works in the past three years?	
	Yes X No If yes, describe each episode.	
RCRA	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPE	LINE:
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three years receive pipe? Yes X No (go to F.12.)	red RCRA hazardous waste by truck, rail, or dedicat
 40		
F.10.	Waste Transport. Method by which RCRA waste is received (check all that apply): Truck Rail Dedicated Pipe	
F.11.	Waste Description. Give EPA hazardous waste number and amount (volume or mass	, specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTIVE ACTIVITY WASTEWATER:	CTION
F,12.	Remediation Waste. Does the treatment works currently (or has it been notified that it	will) receive waste from remedial activities?
	X Yes (complete F.13 through F.15.)	
	Provide a list of sites and the requested information (F.13 - F.15.) for each current and for	uture site.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).	er remedial waste originates (or is expected to
	Federal Mogul Corporation - RCRA groundwater remediation - currently discharge	es via VPDES permit but
	facility has retained an indirect discharge permit for possible future use	
F.14.	Pollutants. List the hazardous constituents that are received (or are expected to receive known. (Attach additional sheets if necessary).	ed). Include data on volume and concentration, if
F.14.		ed). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L.	ed). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary).	ed). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment.	ed). Include data on volume and concentration, if
F.14. F.15.	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency):	ed). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No	ed). Include data on volume and concentration, if
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	known. (Attach additional sheets if necessary). Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? X Yes No If yes, describe the treatment (provide information about the removal efficiency): Federal Mogul Corporation - Activated carbon treatment system b. Is the discharge (or will the discharge be) continuous or intermittent?	ed). Include data on volume and concentration, if

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-	IERAL INFORM	ATION:		
=.1.	Pretreatment Pr	gram. Does the treatment	ent works have, or is it subject to, an approved pretreatment program?	
	XYes	No		
- ^				
2.		ant Industrial Users (SIUs) at discharge to the treatme	s) and Categorical Industrial Users (CIUs). Provide the number of each of the following type ent works.	s of
	a. Number o	f non-categorical SIUs.	1 * currently discharges via VPDES Permit	
	b. Number of	FCIUs.	4	
2101	UELO A NET INIDII	TOLAL LIGED INFO	PARATION:	anakewa kake
		STRIAL USER INFOR	Find HON: f more than one SIU discharges to the treatment works, copy questions F.3 through F.	.8 and
3 , 5 50		equested for each SIU.	그는 어떤 사람들은 그 사람들이 되었다면 하다 가장 하는 사람들이 되었다. 그는 사람들이 나는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다면 하는 사람들이 되었다.	
3.	Significant Indus pages as necessa		Provide the name and address of each SIU discharging to the treatment works. Submit addi	tional
	Name:	Wolverine Gasket C	Company - Blacksburg Plant	
	Mailing Address:	210 Industrial Park I	Road, SW	
		Blacksburg, VA 240	060	
·.4.	SIC Codes 3053	ses. Describe all of the inc and 3479 - Production of	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry	
.4. .5.	SIC Codes 3053	ses. Describe all of the inc and 3479 - Production of	ndustrial processes that affect or contribute to the SIU's discharge.	's
	SIC Codes 3053	ses. Describe all of the inc and 3479 - Production of s (s) and Raw Material(s).	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry . Describe all of the pincipal processes and raw materials that affect or contribute to the SIU	's
	SIC Codes 3053 Principal Production discharge.	ses. Describe all of the inc and 3479 - Production of ((s) and Raw Material(s).	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry . Describe all of the pincipal processes and raw materials that affect or contribute to the SIU	's
	Principal Production discharge.	ses. Describe all of the inc and 3479 - Production of ((s) and Raw Material(s).	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry Describe all of the pincipal processes and raw materials that affect or contribute to the SIU	's
·.5.	Principal Product(s) Principal product(s) Raw material(s): Flow Rate. a. Process w	ses. Describe all of the income and 3479 - Production of section of section and Raw Material(s). Rubber coated steel steel, stainless steel sestewater flow rate. Indica	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry Describe all of the pincipal processes and raw materials that affect or contribute to the SIU	
·.5.	Principal Product(s) Principal product(s) Raw material(s): Flow Rate. a. Process w	ses. Describe all of the income and 3479 - Production of section (s) and Raw Material(s). Rubber coated steel Steel, stainless steel astewater flow rate. Indicated and whether the discharge.	ndustrial processes that affect or contribute to the SIU's discharge. f gaskets for the automotive industry Describe all of the pincipal processes and raw materials that affect or contribute to the SIU el coil el and aluminum coils; nitrile butadiene rubber cate the average daily volume of process wastewater discharged into the collection system in	
·.5.	Principal Product(s) Principal product(s) Raw material(s): Flow Rate. a. Process w per day (g 5,000	ses. Describe all of the income and 3479 - Production of section of section and Raw Material(s). Rubber coated steel	Industrial processes that affect or contribute to the SIU's discharge. If gaskets for the automotive industry Industrial processes that affect or contribute to the SIU is paskets for the automotive industry Industrial processes and raw materials that affect or contribute to the SIU is paskets and aluminum coils; nitrile butadiene rubber Industrial processes that affect or contribute to the SIU is paskets and raw materials that affect or contribute to the SIU is paskets and aluminum coils; nitrile butadiene rubber Industrial processes that affect or contribute to the SIU is paskets affect or contribute to the SIU is paskets affect or contribute to the SIU is paskets and raw materials that affect or contribute to the SIU is paskets affect or c	ı gallons
·.5.	Principal Product(s) Principal product(s) Raw material(s): Flow Rate. a. Process w per day (g 5,000	ses. Describe all of the income and 3479 - Production of section of section and Raw Material(s). Rubber coated steel	Industrial processes that affect or contribute to the SIU's discharge. If gaskets for the automotive industry Industrial processes that affect or contribute to the SIU is discharged. Industrial processes that affect or contribute to the SIU is discharged into the process and raw materials that affect or contribute to the SIU is discharged into the collection system in the continuous or intermittent. Indicate the average daily volume of non-process wastewater flow discharged into the collection into the collection intermittent. Indicate the average daily volume of non-process wastewater flow discharged into the collection into the col	ı gallons
·.5.	Principal Product discharge. Principal product (state of the principal prin	ses. Describe all of the income and 3479 - Production of graduation of graduation and Raw Material(s). Steel, stainless stee astewater flow rate. Indicated and whether the dischated gpd (Industrial processes that affect or contribute to the SIU's discharge. If gaskets for the automotive industry Industrial processes that affect or contribute to the SIU is paskets for the automotive industry Industrial processes and raw materials that affect or contribute to the SIU is paskets and aluminum coils; nitrile butadiene rubber Industrial processes that affect or contribute to the SIU is paskets and raw materials that affect or contribute to the SIU is paskets and aluminum coils; nitrile butadiene rubber Industrial processes that affect or contribute to the SIU is paskets affect or contribute to the SIU is paskets affect or contribute to the SIU is paskets and raw materials that affect or contribute to the SIU is paskets affect or c	ı gallons
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	Principal Production discharge. Principal production discharge. Principal production discharge. Principal production discharge. Flow Rate. a. Process was per day (good 5,000 door 1,360 door 1,36	ses. Describe all of the income and 3479 - Production of graduation of graduation and Raw Material(s). Comparison of graduation of graduation of graduation of graduation and whether the dischalation of graduation of graduatio	Industrial processes that affect or contribute to the SIU's discharge. If gaskets for the automotive industry Industrial processes and raw materials that affect or contribute to the SIU eli coil Industrial all of the pincipal processes and raw materials that affect or contribute to the SIU eli coil Industrial all all all all all all all all all	ı gallons

1	TY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Lower	Stroubles Creek Wastewater Treatment Plant; VA0060844 Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has	OMB Number 2040-0086
F.8.	upsets, interference) at the treatment works in the past three years?	(e.
	Yes X No If yes, describe each episode.	
		_
RCRA	HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPE	LINE:
		I DODA!
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three years receive pipe?	/ed RCRA hazardous waste by truck, rail, or dedicate
	Yes X No (go to F.12.)	
F.10.	Waste Transport. Method by which RCRA waste is received (check all that apply):	
r. 10.		
	Truck Rail Dedicated Pipe	
	W (B) I' O' FRAIL I () O' FRAIL I ()	
F.11.	Waste Description. Give EPA hazardous waste number and amount (volume or mass,	
	EPA Hazardous Waste Number Amount	<u>Units</u>
		
OFDO	LA (QUEEDEUNE) WAGTEWATER, DODA DEMEDIATION/CORDECTIVE AC	TON!
	LA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE AC EWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	JION
MAGI	EMAILK, AND OTHER REMEDIAL ACTIVITY MACIENATERS	
F.12.	Remediation Waste. Does the treatment works currently (or has it been notified that it	will) receive waste from remedial activities?
	X Yes (complete F.13 through F.15.) No	•
	Provide a list of sites and the requested information (F.13 - F.15.) for each current and fu	uture site
	Trovada a not or once and the requestion information (1.110 Trival) to each outroit and to	dialo dilo.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other	er remedial waste originates (or is expected to
	originate in the next five years).	
	Federal Mogul Corporation - RCRA groundwater remediation - currently discharge	es via VPDES permit but
	facility has retained an indirect discharge permit for possible future use	
		•
F.14.	Pollutants. List the hazardous constituents that are received (or are expected to receive	ed). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary).	
,	Federal Mogul Corporation - Trichloroethylene; concentration typically < 5 ug/L.	
F.15.	Waste Treatment.	
	a. Is this waste treated (or will it be treated) prior to entering the treatment works?	
	If yes, describe the treatment (provide information about the removal efficiency):	
	Federal Mogul Corporation - Activated carbon treatment system	
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
	Continuous X Intermittent If intermittent describ	oe discharge schedule.
	Continuous X Intermittent If intermittent, describ	e discharge schedule. groundwater levels and pump activation.

	LITY NAME AND PER		Form Approved 1/14/99					
	The same and the same as a same a sa	astewater Treatment Plant; VA0060844	OMB Number 2040-0086					
SU	BBREWENIN	AL APPLICATION INFORMA						
PAR	TESINDUSTRIA	USER DISCHARGES AND REPAGER	CLA WASTIES					
All tre	atment works receivin	g discharges from significant lindustrial users or white	Himocelye (RCRA, CERCLA, or other remedia) wastes invisive amplete Par					
GEN	IERAL INFORMA	TION:						
<u> </u>								
F.1.	Pretreatment Prog	ram. Does the treatment works have, or is it subject	t to, an approved pretreatment program?					
ļ	XYes	No						
F.2.	Number of Cignifica	at Industrial Linear (SILIA) and Catagorical Industrial	Lieurs (Cilie). Drevide the averbourst each of the fallowing trace of					
r.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.							
	a. Number of r	on-categorical SiUs1 * curi	ently discharges via VPDES Permit					
	b. Number of C	CIUs. <u>4</u>	•					
		RIAL USER INFORMATION:	l inges to the treatment works, copy questions Fa3 through (F18 and)					
F.3.	Significant Industri	al Hear Information - Provide the name and addre	ss of each SIU discharging to the treatment works. Submit additional					
	pages as necessary		ss of each 310 discharging to the deathers works. Submit additional					
	Name:	Federal Mogul Corporation (Currently discha	rges via a VPDES permit but also holds a					
		a permit for a possible future discharge to B\	/PISA)					
	Mailing Address:	Rt 460 - South Main Street						
		Blacksburg, VA 24060						
- 4	Industrial Drasses	a. December all of the industrial pressure that offer	at an apptitude to the CII He discharge					
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. Groundwater remediation system							
	Groundwater reme	nation system						
F.5.	•	Principal Product(s) and Raw Material(s). Describe all of the pincipal processes and raw materials that affect or contribute to the SIU's						
	discharge.							
	Principal product(s): Trichloroethylene remediation treatment system							
	i filicipai product(s).	Trichloroethylene remediation treatment syst	GIII					
	Raw material(s): N/A							
F.6.	Flow Rate.	Flow Rate.						
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons							
	per day (gpd) and whether the discharge is continuous or intermittent. varies gpd (continuous or X intermittent)							
	Varies							
	b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection							
	system in gallons per day (gpd) and whether the discharge is continuous or intermittent. N/A gpd (continuous or intermittent)							
	N/A	gpd (continuous or interm	ttent)					
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:							
•••	a. Local limits	X Yes	No					
		retreatment standards Yes X						
	If subject to categoric	al pretreatment standards, which category and sub-	category?					

mo 11 01	ITY NAME AND PERMIT I Stroubles Creek Wastev		Plant: VA0060844	Form Approved 1/14/99 OMB Number 2040-0086			
				Has the SIU caused or contributed to any problems (e)			
F.8.			ks in the past three years?	, ,			
	Yes X No	o lf y	yes, describe each episode.				
DCDA	HAZABBOLIE WASTI	E DECEIVED D	V TOUCK DAIL OF DEDICATED				
KCKA	THE	E RECEIVED B	Y TRUCK, RAIL, OR DEDICATED	PIPELINE:			
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedica						
	pipe?						
	Yes	X No (go to F	.12.)				
F.10.	Waste Transport. Method	od by which RCR	A waste is received (check all that apply	r):			
	Truck	Rail	Dedicated Pipe				
F.11.	Waste Description. Giv	e EPA hazardous	waste number and amount (volume or	mass, specify units).			
	EPA Hazardous Waste N	<u>lumber</u>	<u>Amount</u>	<u>Units</u>			
	•						
			CRA REMEDIATION/CORRECTIV	E ACTION Market State of the Control			
NAST	EWATER, AND OTHER	R REMEDIAL A	ACTIVITY WASTEWATER:				
F.12.	Permediation Wests De	on the treatment	works surrently (or boo it book notified t	and it will) repaire wants from remadial activities?			
12.	Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?						
	X Yes (complete F.13 through F.15.) No Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.						
	Provide a list of sites and	tne requested int	ormation (F.13 - F.15.) for each current	and future site.			
	Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to						
₹.13.	waste Origin. Describe	יוום אונם מווט נאטם	of facility at which the CERCLA/RCRA/o	r other remedial waste originates (or is expected to			
	originate in the next five y		of facility at which the CERCLA/RCRA/c	or other remedial waste originates (or is expected to			
	originate in the next five y	rears).	of facility at which the CERCLA/RCRA/o				
	originate in the next five y Federal Mogul Corporat	ears). ion - RCRA grou					
	originate in the next five y Federal Mogul Corporat	ears). ion - RCRA grou	ındwater remediation - currently disc				
	originate in the next five y Federal Mogul Corporat	ears). ion - RCRA grou	ındwater remediation - currently disc				
14.	originate in the next five y Federal Mogul Corporat facility has retained an i Pollutants. List the haza	ears). ion - RCRA grou ndirect discharg	indwater remediation - currently disciple permit for possible future use				
14.	originate in the next five y Federal Mogul Corporat facility has retained an i Pollutants. List the haza known. (Attach additional	rears). ion - RCRA grou indirect discharg rdous constituent I sheets if necessi	ndwater remediation - currently disciple permit for possible future use sthat are received (or are expected to rary).	eceived). Include data on volume and concentration, if			
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.14. .15.	originate in the next five y Federal Mogul Corporat facility has retained an i Pollutants. List the haza known. (Attach additional Federal Mogul Corporat Waste Treatment. a. Is this waste treated X Yes If yes, describe the Federal Mogul Corporat Federal Mogul Corporation Federal Mogul Corporation If yes, describe the	rears). ion - RCRA groundirect discharger dous constituent a sheets if necession - Trichloroet double doub	s that are received (or are expected to rary). hylene; concentration typically < 5 ug ated) prior to entering the treatment work le information about the removal efficient ated carbon treatment system	eceived). Include data on volume and concentration, if			
- - - - - - - - - -	originate in the next five y Federal Mogul Corporat facility has retained an i Pollutants. List the haza known. (Attach additional Federal Mogul Corporat Waste Treatment. a. Is this waste treated X Yes If yes, describe the Federal Mogul Cor b. Is the discharge (or	rears). ion - RCRA grou Indirect discharge rdous constituent I sheets if necession - Trichloroet d (or will it be treat No treatment (provider poration - Active will the discharge	s that are received (or are expected to rary). hylene; concentration typically < 5 ug ted) prior to entering the treatment work le information about the removal efficient ated carbon treatment system	eceived). Include data on volume and concentration, if			
.14.	originate in the next five y Federal Mogul Corporat facility has retained an i Pollutants. List the haza known. (Attach additional Federal Mogul Corporat Waste Treatment. a. Is this waste treated X Yes If yes, describe the Federal Mogul Corporat Federal Mogul Corporation Federal Mogul Corporation If yes, describe the	rears). ion - RCRA grou Indirect discharge rdous constituent I sheets if necession - Trichloroet d (or will it be treat No treatment (provider poration - Active will the discharge	s that are received (or are expected to rary). hylene; concentration typically < 5 ug ted) prior to entering the treatment work le information about the removal efficient ated carbon treatment system be be) continuous or intermittent? Intermittent, de	eceived). Include data on volume and concentration, if			

2A YOU MUST COMPLETE *

Form Approved.

OMB No. 2040-0086.

Approval expires 8-31-98.

Please print or type in the unshaded areas only.

VA0060844

United States Environmental Protection Agency

Washington, DC 20460





Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. A. Outfall Number D. Receiving Water (list) B. Latitude (name) C. Longitude 003 37° 10' 53" 80° 30' 54" Stroubles Creek 37° 004 10' 53" 80° 55" 30' Stroubles Creek 37° 80° 005 10' 54" 30' 55" Stroubles Creek 37° 57" 80° 006 10' 58" 30' Stroubles Creek 37° 80° 11' 5" 007 31' 00" Stroubles Creek II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

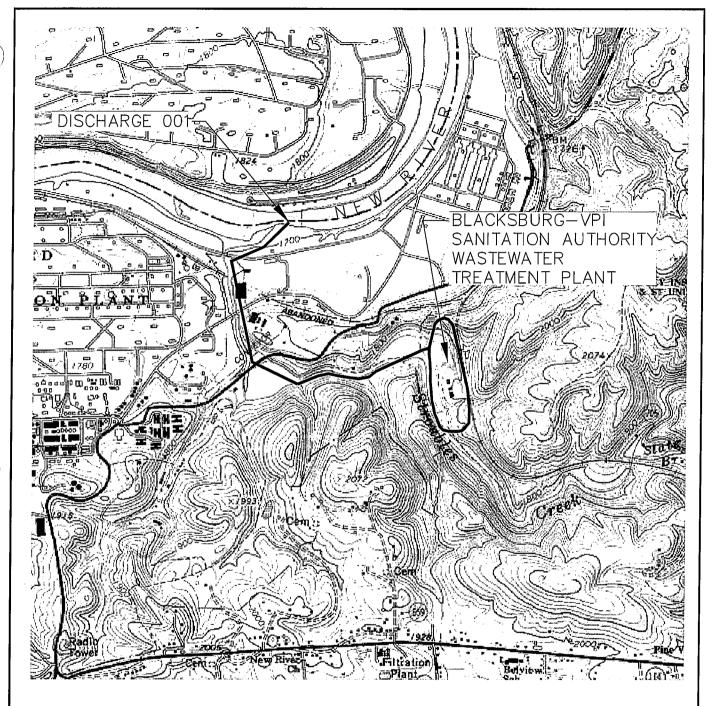
Identification of Conditions,	ers, enforcement compliance schedule letters, stipu 2. Affected Outfalls		Paradona, and a same of local contained to	4.	4. Final	
Agreements, Etc.				Compliance Date		
	number	source of discharge	Brief Description of Project	a. req.	b. proj.	
N/A - None						
						
					-	
		·				

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

tach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting a facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each know past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

See Attached Site Location and Facility Site Maps



MAP TAKEN FROM U.S.G.S. TOPO: RADFORD NORTH AND BLACKSBURG, VA. QUADS.

STORMWATER POLLUTION PREVENTION PLAN BLACKBURG - VPI SANITATION AUTHORITY SITE LOCATION MAP

SCALE: 1"=2000'-0" JOB NO.:10729.04 SEPT 2008 App_2003108.zip



Continued fro	m the Front					
	e Description of Pollutant Sources					
A.	For each outfall, provide an estimate of the of the total surface area drained by the ou		surfaces (including pa	aved areas and building roofs) drained to	the outfall,	and an estimate
Outfall	Area of Impervious Surface	Total Area Drained	Outfall	Area of Impervious Surface	Total /	Area Drained
Number	(provide units)	(provide units)	Number	(provide units)		ovide units)
003	4,890	118,794 ft ²	006	GE 200	501	2 400 Et ²
004	7,310	14,324 ft ²	006 007	65,280 99,320		3,128 ft ²
005	3,375	26,774 ft ²	007	99,320	1,11	17,482 ft ²
	Provide a narrative description of significar storm water; method of treatment, storage these materials with storm water runoff; mand fertilizers are applied.	, or disposal; past and present mate aterials loading and access areas; a	erials management pro and the location, mann	ractices employed, in the last three years ner, and frequency in which pesticides, h	s, to minimize nerbicides, so	e contact by oil conditioners,
partially c concrete. present fo fence to p	exposed to storm water incluctovered, a 5,155 gallon and two A BVPISA employee is preson oil unloading activities. A prevent/reduce plant growth;	vo 9,816 gallon double-v ent for loadings at the le herbicide is applied per these applications are p	walled oil stora eachate receiv iodically durin performed by a	age tanks, and loading doo ving station and two BVPIS ng the growing season to tl a BVPISA employee certifie	ck areas, 6A emplo he site p ed for he	, that are oyees are perimeter erbicide use
C.	For each outfall, provide the location and description of the treatment the storm wat any solid or fluid wastes other than by disci	er receives, including the schedule	al and nonstructural and type of mainten	control measures to reduce pollutants ance for control and treatment measure	in storm we sand the u	rater runoff; and ltimate disposal o
Outfall Number		Treatme	ent			List Codes from Table 2F-1
ll five outfalls	Natural drainage ways, rip-ra convey site drainage away fi			trapeziodal ditches collect	t and	None
V. Nonstorm	nwater Discharges					
A.	I certify under penalty of law that the outfa	all(s) covered by this application ha	ave been tested or e	evaluated for the presence of nonstorm	water discha	arges, and that a
	nonstormwater discharges from these outfath Name and Official Title (type or print)	d(s)) are identified in either an accord				eta Cianad
	Name and Official Title (type of print)			ignature		ate Signed
M	lichael Vaught, Executive Dire	ector	harf &. V	aught	10/	06/2008
В.	Provide a description of the method used, the		e drainage points tha	it were directly observed during a test		
/I. Significar	net Leaks or Spills g information regarding the history of signific		ardous pollutants at t	he facility in the last three years, includi	ing the appr	oximate date an
ocation of the s	spill or leak, and the type and amount of mate	erial released.				
Γhere hav	e been no significant leaks or	spills of toxic or hazar	dous pollutan	ts at the facility in the past	three ye	∍ars.

EPA I.D. Number (copy from Item 1 of Form 1)

Continued from Page 2

VA0060844

	VII. Discharge Information						
~/	A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.						
ĺ	E. Potential discharges not covered by analyst or manufacture as an intermediate or final	onent of a substance which you currently use					
ı	Yes (list all such pollutants below)			X No (go	to section VIII)		
	VIII. Piological Toxicity Testing Date						
-	VIII. Biological Toxicity Testing Data Do you have any knowledge or reason to believe th	at any biological test for acute or chron	c toxicity has been mad	le on any of y	vour discharges or on a receiving		
N	water in relation to your discharge within the last 3 y	ears?	o toxicity riad book mad	ic on any or	your discharges or on a receiving		
ı	Yes (list results below)			X No (go	to Section IX)		
г	X. Contract Analysis Information Were any of the analyses reported in Item V perform Yes (list the name, address, and telepholaboratory or firm below) A. Name Air Water & Soil Laboratories, Inc.	ed by a contract laboratory or consulting one number of, and pollutants analyzed by B. Address 2109 A North Hamilton St. Richmond, VA 23230	•	one No. 295 /	o Section X) D. Pollutants Analyzed All parameters except Chlorine and pH		
l							
x	(. Certification						
I a o c	certify under penalty of law that this document and ssure that qualified personnel properly gather and er those persons directly responsible for gathering tomplete. I am aware that there are significant priolations.	evaluate the information submitted. Bas the information, the information submit	sed on my inquiry of the ed is, to the best of m	person or pe y knowledge	ersons who manage the system and belief, true, accurate, and		
A	. Name & Official Title (type or print)	B. Area Code and Phone No.					
M	Michael Vaught, Executive Director				(540) 552-6940		
) c	C. Signature				D. Date Signed		
	Michay 5. Vaught				10/06/2008		

Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

VA0060844

VII. Discharge Information (Continued form page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant		m Values de units)		ge Values de units)	Number	Outfall 003
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<10 mg/L	N/A	<10 mg/L	N/A	1	Storm Water Runoff
Biological Oxygen Demand (BOD5)	<2 mg/L	<2 mg/L	<2 mg/L	<2 mg/L	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	11.4 mg/L	<10 mg/L	11.4 mg/L	<10 mg/L	1	Storm Water Runoff
Total Suspended Solids (TSS)	5.4 mg/L	15.6 mg/L	5.4 mg/L	15.6 mg/L	1	Storm Water Runoff
Total Kjeldahl Nitrogen	0.3 mg/L	0.4 mg/L	0.3 mg/L	0.4 mg/L	1	Storm Water Runoff
Nitrate plus Nitrite Nitrogen	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	1	Storm Water Runoff
Total Phosphorus	0.07 mg/L	0.08 mg/L	0.07 mg/L	0.08 mg/L	1	Storm Water Runoff
pН	Minimum 7.8 S.U.	Maximum 7.8 S.U.	Minimum 7.8 S.U.	Maximum 7.8 S.U.	1	Storm Water Runoff

Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

Pollutant	(includ	m Values le units)	Average (include	Values units)	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
TRC	<0.1 mg/L	N/A	<0.1 mg/L	N/A	1	Storm Water Runoff
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Continued from the Front

Part C-	List each Complete	pollutant one tat	nt shown in Table ble for each outfa	s 2F-2, ill.	2F-3, and 2F-4 tha	at you know or ha	ve reaso	on to believe is present	t. See the instru-	ctions for	r additional details	and requirements
Pollut			Maxim	ium Valu ude units			Averag (inclu	ge Values de units)	Number		Outfall (003
and CAS Nu (if avail	nd lumber ilable)	G T:	Grab Sample Faken During First 30 Minutes		Flow-weighted Composite	Grab Sam Taken Dur First 30 Minutes	nple ring	Flow-weighted Composite	of Storm Events Sampled		Sources of Po	olluta <u>nts</u>
N/A	A			二								
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Part D-	Provide da	ta for the	e storm event(s)	which r	resulted in the max	imum values for t	he flow	 weighted composite sa	-male			
1. Date of Storm Event	2.	ion orm	3. Total rainfa during storm e	all event	4. Number of ho beginning of s ured and end measurable	1. ours between storm meas- d of previous	Ma du	5. aximum flow rate uring rain event ns/minute or specify units)	6. Total flow fr rain even (gallons o specify unit	nt or	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)
	2,160 mir	inutes	1.12"		~294 h			N/A*	specity unit	s)	Summer	Rain
9. Provide a d	escription o	f the me	ethod of flow mea	asureme	ent or estimate	 						

Outfall 003 was deemed substantially similar to Outfall 005 by DEQ letter dated September 10, 2003. As such, data from Outfall 005 onitoring was reported for this outfall. Flow measurements were not made for this outfall.

VA0060844

Form Approved.

OMB No. 2040-0086.

Approval expires 8-31-98.

VII. Discharge Information (Continued form page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant		ım Values de units)		ge Values de units)	Number	Outfall 004
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<10 mg/L	N/A	<10 mg/L	N/A	1	Storm Water Runoff
Biological Oxygen Demand (BOD5)	<2 mg/L	<2 mg/L	<2 mg/L	<2 mg/L	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	11.4 mg/L	<10 mg/L	11.4 mg/L	<10 mg/L	1	Storm Water Runoff
Total Suspended Solids (TSS)	5.4 mg/L	15.6 mg/L	5.4 mg/L	15.6 mg/L	1	Storm Water Runoff
Total Kjeldahl Nitrogen	0.3 mg/L	0.4 mg/L	0.3 mg/L	0.4 mg/L	1	Storm Water Runoff
Nitrate plus Nitrite Nitrogen	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	1	Storm Water Runoff
Total Phosphorus	0.07 mg/L	0.08 mg/L	0.07 mg/L	0.08 mg/L	1	Storm Water Runoff
рН	Minimum 7.8 S.U.	Maximum 7.8 S.U.	Minimum 7.8 S.U.	Maximum 7.8 S.U.	1	Storm Water Runoff

Part BList each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

Pollutant	Maximur (include		Average (include	Values units)	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
TRC	<0.1 mg/L	N/A	<0.1 mg/L	N/A	1	Storm Water Runoff
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Pollu	tant		Maxim (inclu	um Valu de unita			Averag	ge Values de units)	Number		Outfall	004
an CAS Ni (if avai	d umber		rab Sample aken During First 30 Minutes		Flow-weighted Composite	Grab Sam Taken Dui First 30 Minutes	ple ing	Flow-weighted Composite	of Storm Events Sampled		Sources of Po	ollutants
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Part D-		ta for the		which r	esulted in the max		ne flow v	weighted composite sa	imple. 6.			
1. ate of Storm Event	2. Durati of Sto (in minu	rm	3. Total rainfi during storm of (in inches	event	Number of ho beginning of ured and end measurable	ours between storm meas- d of previous	d	aximum flow rate uring rain event ns/minute or specify units)	Total flow f rain ever (gallons o specify un	nt o <i>r</i>	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)
:/26/2008	2,160 mi	nutes	1.12"		~294	nours		N/A*	N/A*		Summer	Rain
Provide a	lescription o	of the me	thod of flow mea	asurem	ent or estimate							

Outfall 004 was deemed substantially similar to Outfall 005 by DEQ letter dated September 10, 2003. As such, data from Outfall 005 onitoring was reported for this outfall. Flow measurements were not made for this outfall.

VA0060844

Form Approved.

OMB No. 2040-0086.

Approval expires 8-31-98.

VII. Discharge Information (Continued form page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant		m Values le units)		je Values de units)	Number	Outfall 005
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<10 mg/L	N/A	<10 mg/L	N/A	1	Storm Water Runoff
Biological Oxygen Demand (BOD5)	<2 mg/L	<2 mg/L	<2 mg/L	<2 mg/L	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	11.4 mg/L	<10 mg/L	11.4 mg/L	<10 mg/L	1	Storm Water Runoff
Total Suspended Solids (TSS)	5.4 mg/L	15.6 mg/L	5.4 mg/L	15.6 mg/L	1	Storm Water Runoff
Total Kjeldahl Nitrogen	0.3 mg/L	0.4 mg/L	0.3 mg/L	0.4 mg/L	1	Storm Water Runoff
Nitrate plus Nitrite Nitrogen	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	<0.1 mg/L	1	Storm Water Runoff
Total Phosphorus	0.07 mg/L	0.08 mg/L	0.07 mg/L	0.08 mg/L	1	Storm Water Runoff
рН	Minimum 7.8 S.U.	Maximum 7.8 S.U.	Minimum 7.8 S.U.	Maximum 7.8 S.U.	1	Storm Water Runoff

Part BList each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

Pollutant	Maximur (includ	n Values e <i>units)</i>	Average (include	Values <i>units)</i>	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
TRC	<0.1 mg/L	N/A	<0.1 mg/L	N/A	1	Storm Water Runoff
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Part C-	List each Complete	pollutan one tab	nt shown in Tabl ole for each outf	es 2F-2 all.	, ∠⊦-3, and 2F-4 th	at you know or ha	ive reas	on to believe is preser	nt. See the instr	uctions f		
O Dalle	itant			um Val ude unit			Avera	ge Values de units)	Number		Outfall	005
Pollu	ıd		Grab Sample	.ac unit	~,	Grab Sam	ple	ac amoj	of Storm			
CAS N (if avai		T	aken During First 30		Flow-weighted	Taken Dui First 30		Flow-weighted	Events			
			Minutes	<u> </u>	Composite	Minutes		Composite	Sampled		Sources of Po	ollutants
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Part D-	Provide da	ta for th	e storm event(s	which	resulted in the max	kimum values for	the flow	weighted composite s				
1,	2.		3. Tatal salist	- 11	Number of ho		М	5. aximum flow rate	6. Total flow	from	7.	8. Form of
Date of Storm Event	of Stor	m	Total rainf during storm	event	beginning of ured and end	storm meas-	d	luring rain event	rain eve	nt	Season sample was	Precipitation
Event	(in minu	tes)	(in inches	s)	measurable		(gailo	ns/minute or specify units)	(gallons specify un		taken	(rainfall, snowmelt)
8/26/2008	2,160 mi	nutes	1.12"		~294	hours	1	gallon/minute	1,080 gal	lons	Summer	Rain
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Provide a	aescription o	or the me	ethod of flow me	asuren	ent or estimate							
ವtimated	based	on de	epth in cha	nnel.								

VA0060844

Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

VII. Discharge Information (Continued form page 3 of Form 2F)

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant	•	m Values de units)		ge Values de units)	Number	Outfall 006
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<10 mg/L	N/A	<10 mg/L	N/A	1 1	Storm Water Runoff
Biological Oxygen Demand (BOD5)	<2 mg/L	<2 mg/L	<2 mg/L	<2 mg/L	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	14.3 mg/L	23.1 mg/L	14.3 mg/L	23.1 mg/L	1	Storm Water Runoff
Total Suspended Solids (TSS)	1.5 mg/L	17.9 mg/L	1.5 mg/L	17.9 mg/L	1	Storm Water Runoff
Total Kjeldahl Nitrogen	<0.2 mg/L	<0.2 mg/L	<0.2 mg/L	<0.2 mg/L	1	Storm Water Runoff
Nitrate plus Nitrite Nitrogen	<0.1 mg/L	0.11 mg/L	<0.1 mg/L	0.11 mg/L	1	Storm Water Runoff
Total Phosphorus	<0.05 mg/L	<0.05 mg/L	<0.05 mg/L	<0.05 mg/L	1	Storm Water Runoff
pН	Minimum 7.8 S.U.	Maximum 7.8 S.U.	Minimum 7.8 S.U.	Maximum 7.8 S.U.	1	Storm Water Runoff

List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

Pollutant	Maximur (include		Average (include	Values <i>units)</i>	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
TRC	<0.1 mg/L	N/A	<0.1 mg/L	N/A	1	Storm Water Runoff
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Continued from Part C-	List each	pollutani	nt shown in Table	es 2F-2	, 2F-3, and 2F-4 th	nat you know or ha	ave reas	son to believe is present	t. See the instru	uctions fo	or additional details	and requiremen
Pollut	Complete	one tab	ble for each outfa Maxim	all. num Valu ude units	lues		Averag	ge Values ude units)	Number	T	Outfall	
CAS Nu	nd umber		Grab Sample Faken During First 30		Flow-weighted	Grab Sam Taken Duri First 30	nple Iring 0	Flow-weighted	of Storm Events Sampled			
N/		4—	Minutes	┼	Composite	Minutes	ذ	Composite			Sources of Po	ollutants
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Part D-	Provide da	ta for th	e storm event(s)	which	resulted in the max	ximum values for f	the flow	weighted composite sa		<u> </u>		
1. Date of Storm Event	2.	ion rm	3. Total rainfa during storm e (in inches)	fall event	4 Number of ho beginning of ured and end	4. ours between f storm meas-	Ma du	5. laximum flow rate during rain event ons/minute or specify units)	6. Total flow fr rain even (gallons o specify unit	nt o <i>r</i>	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)
8/26/2008	2,160 mii	nutes	. 1.12"		~294 f		2 ç	gallons/minute	2,160 gallo		Summer	Rain
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9. Provide a d	escription o	f the me	ethod of flow mea	asurem	ent or estimate							
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Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

VA0060844

VII. Discharge Information (Continued form page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant		m Values le units)		e Values de <i>units)</i>	Number	Outfall 007
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<10 mg/L	N/A	<10 mg/L	N/A	1	Storm Water Runoff
Biological Oxygen Demand (BOD5)	<2 mg/L	<2 mg/L	<2 mg/L	<2 mg/L	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	23.9 mg/L	15.4 mg/L	23.9 mg/L	15.4 mg/L	1	Storm Water Runoff
Total Suspended Solids (TSS)	12.7 mg/L	3.1 mg/L	12.7 mg/L	3.1 mg/L	1	Storm Water Runoff
Total Kjeldahl Nitrogen	0.9 mg/L	0.7 mg/L	0.9 mg/L	0.7 mg/L	1	Storm Water Runoff
Nitrate plus Nitrite Nitrogen	0.78 mg/L	0.99 mg/L	0.78 mg/L	0.99 mg/L	1	Storm Water Runoff
Total Phosphorus	0.11 mg/L	0.09 mg/L	0.11 mg/L	0.09 mg/L	1	Storm Water Runoff
рН	Minimum 7.5 S.U.	Maximum 7.5 S.U.	Minimum 7.5 S.U.	Maximum 7.5 S.U.	1	Storm Water Runoff

Part BList each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

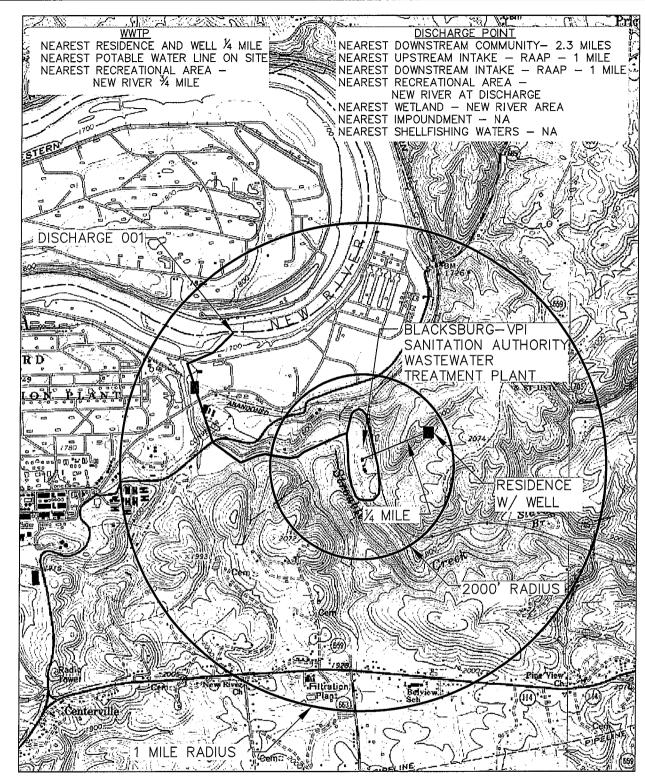
Pollutant	Maximur (includ		Average (include	Values units)	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
TRC	<0.1 mg/L	N/A	<0.1 mg/L	N/A	1	Storm Water Runoff
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Part C-		table for each outfa	l		1		n to believe is present		1		
D-"	tont	Maximum Values (include units)				Averag	ge Values de <i>units)</i>	Number		Outfall	007
Pollu an		(include units) Grab Sample			Grab Sam		10 amoj	of Storm			
CAS N		Taken During			Taken Duri	ing		Events			
(if avail	lable)	First 30 Minutes	F	low-weighted Composite	First 30 Minutes		Flow-weighted Composite	Sampled		Sources of Po	llutanta
N/A		Militates	+	Composite	Williates		Composite			Sources of Fo	iiutants
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Part D-	Provide data fo	or the storm event(s)	which re	sulted in the maxin		e flow w	eighted composite sar 5.	nple. 6.		_	8.
1.	2.	3.	iall	Number of h		М	อ. aximum flow rate	Total flow f	rom	7. Season	Form of
Date of	Duration of Storm	Total rain during storm		beginning of		d	uring rain event	rain ever		sample was	Precipitation
Storm Event	(in minutes)			ured and end measurable	d of previous e rain event	(gailo	ns/minute or specify units)	(gallons o specify un		taken	(rainfall, snowmelt)
8/26/2008	2,160 minut	es 1.12"		~294	hours	2 9	gallons/minute	2,160 gall	ons	Summer	Rain
. Provide a	description of the	he method of flow m	easureme	ent or estimate							
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esumate:	u nased of	n depth in cha	mmet.								

VPDES PERMIT APPLICATION ADDENDUM -- SUPPLEMENTARY INFORMATION

A.	G	eneral Information
	1.	Entity to whom the permit is to be issued: Blacksburg-VPI Sanitation Authority Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
	2.	Classify the discharge as one of the following by checking the appropriate line:
		X a. Existing discharge
		b. Proposed discharge
		c. Proposed expansion of an existing discharge
B.	Lo	cation
	1.	Is this facility located within city or town boundaries? Y /N
	2.	(New Issuances & Modifications Only) What is the tax map parcel number for the land where this facility is located?
	3.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
	4.	What is the total acreage of the property on which the treatment plant is located? Acres
	5.	Give the minimum elevation of the treatment plant site feet
	6.	Flood elevations of the treatment plant site: 25 year flood 1740 feet 100 year flood 1742 feet
	7.	Attach to the back of this application a location map(s) which may be traced from or is/are a production of a U.S. Geological Survey topographic quadrangle(s) or other appropriately scaled contour map(s). The location map(s) shall show the following: See attached map
		 a. Treatment Plant b. Discharge point c. Receiving waters d. Boundaries of the property on which the treatment plant is located, or to be located. e. Distance from the treatment plant to the nearest: (Indicate "not applicable" for any distance greater than 2000 feet) ii. Residence iii. Distribution line for potable water supply iv. Reservoir, well, or other source of water supply v. Recreational area f. Distance from the discharge point to the nearest (Indicate "not applicable" for any distance greater than 15 miles) ii. Downstream community iii. Upstream and downstream water intake points iv. Shellfishing waters v. Wetlands area vi. Downstream impoundment vii. Downstream recreational area





MAP TAKEN FROM NATIONAL GEOGRAPHIC TOPO, BLACKSBURG, VIRGINIA

BLACKSBURG - VPI SANITATION AUTHORITY VPDES PERMIT APPLICATION - ADDENDUM SITE LOCATION MAP

SCALE: 1=2000' JOB NO.: 10729.03 FIGURE 1

SEPT 2008 Fig 1.dwg



Addendum -	Supplementary	Information
Page 2 of 3		

C. Discharge Description

1. Provide a brief description of the wastewater treatment scheme. Also, attach to the back of this application, a process flow diagram showing each process unit of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system.

Wastewater treatment consists of the following: mechanical screen and pump station; aerated grit chamber; primary settling with grease removal; activated sludge nitrification/denitrification; secondary clarification; chlorination; dechlorination; sludge thickening with dissolved air floatation; sludge dewatering with centrifuge; sludge incineration; and ash disposal.

See attached schematic drawing.

2.	What is the design average flow of this facility?9 MGD Industrial facilities: What is the max. 30-day avg. production level (include units)?N/A
3.	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y/N
	If "Yes", please specify the other flow tiers (in MGD) or production levels:
4.	Nature of operations generating wastewater: N/A – Treatment of domestic, commercial and industrial wastewater
	83 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: 0 1-49 X 50 or more
	17_% of flow from non-domestic connections/sources
5.	Mode of discharge: X Continuous Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges: N/A
6.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: X Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pond at or below the discharge point Other:

Addendum – Supplementary Information Page 3 of 3

Sulfur Dioxide Fuel Oil Propane (LPG) Polymer Lubricants and Oils		~20,000 gallons 30 gallons 4,000 pounds	Adjacent to Solids Hand	istribution Building Iling Building
Chlorir Sulfur		6 tons 4 tons	Chlorinator Building Sulfur Dioxide Building	
	Material	Amount (monthly avg)	Stored Location	
F.	List of Materials Stored	d at the Facility (i.e. chemi	icals, petroleum products)	
	Name / Location	on	× -4(-)-4(-)-4(-)-4(-)-4(-)-4(-)-4(-)-4(-	
		nated date to be disconting he intended replacement	ued (month, year) facility.	, and the
	YesX_	No		
	Are the wastewater tre	eatment facilities interim?	(designed for a useful life of less th	nan 5 years)
E.	Interim Facilities			
	00			
	20 25 30			
•	10 15			
	0 5			
	Years after Co	ompletion	Projected Flow (MGD)
	Anticipated Date of Co	onstruction Completion:	Month ,	Year
	Proposed Design Cap	pacity:	MGD	
		ar in which construction o	nded discharge(s), complete the completion is anticipated and progr	
				<u>ges</u> N/A

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844

111012	VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM
D deper	ENING INFORMATION This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and on your facility's sewage sludge use or disposal practices. The information provided on this page will help you ne which sections to fill out.
1.	All applicants must complete Section A (General Information).
2.	Will this facility generate sewage sludge? X Yes No
	Will this facility derive a material from sewage sludge?Yes _X_No
	If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).
3.	Will this facility apply sewage sludge to the land?Yes _X_No
	Will sewage sludge from this facility be applied to the land? _Yes _X_No
	If you answered No to both questions above, skip Section C.
	If you answered Yes to either, answer the following three questions:
	 Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c. Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you answered Yes to a, b or c, skip Section C.
4.	Do you own or operate a surface disposal site?Yes _X_No

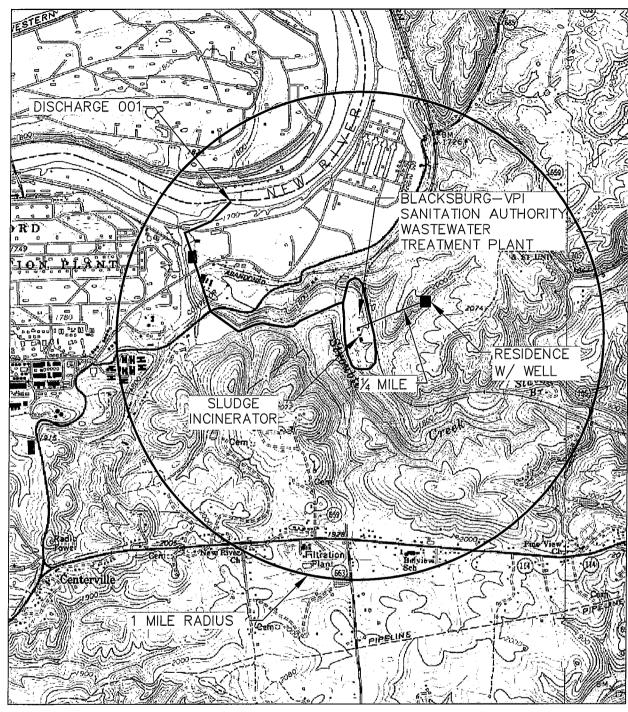
If Yes, complete Section D (Surface Disposal).

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844 SECTION A. GENERAL INFORMATION

All a	pplicants m	ust complete this section.
1.	Facil	ity Information.
	a.	Facility name: Lower Stroubles Creek Wastewater Treatment Plant
	b.	Contact person: Michael Vaught
	0.	Title: Executive Director
		Phone: (540) 552-6940
	•	Mailing address:
	c.	
		Street or P.O. Box: P.O. Box 52
		City or Town: Blacksburg State: Virginia Zip: 24060
	d.	Facility location:
		Street or Route #: 5277 Prices Fork Road
		County: Montgomery County
		City or Town: Blacksburg State: Virginia Zip: 24060
	e.	Is this facility a Class I sludge management facility? X Yes No
	f.	Facility design flow rate:9 mgd
	g.	Total population served:
	h.	Indicate the type of facility:
	11.	X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Appli	cant Information. If the applicant is different from the above, provide the following:
)	a.	Applicant name: same as above
)	Ъ.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	c.	Contact person:
	٥.	Title:
		Phone: ()
	.1	, ,
	d.	Is the applicant the owner or operator (or both) of this facility?
		owneroperator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		facility applicant
3.	Permi	it Information.
	a.	Facility's VPDES permit number (if applicable): VA0060844
	ъ.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		VAL060844 EPA Sludge
		20911 DEQ Operating Air Permit
4	т л!	Country, Descent conception treatment atomorp amplication to land an discount of several affective this
4.		1 Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
	racilit	y occur in Indian Country?Yes _X_No If yes, describe:

Location stored, Location the appropriate employee generated the approvide the contractor of the contr	treated, or disposed. on of all wells, springs, and of all wells, springs, and of all cant within 1/4 mile of the Provide a line drawing and/of during the term of the period sludge, the destination(s) of ion and vector attraction redemation. Are any operational ament, use or disposal the restate following for each contraction: Cox:	agement facilities other surface we property bound or a narrative de mit including alfall liquids and duction. See all or maintenance sponsibility of a factor (attach additional decorporation of the objective obligations of the low or a separate have been estal must be based of the other factor (attach additional decorporations of the objective obligations of the objective obligations of the objective obligations of the objective obligations of the objective obj	ater bodies listed in publications. escription that identifies all processes used for coll solids leaving each unit, attached flow schematics attached flow schematics acontractor? Yes X ditional pages if necessary. Zip: icable to this facility's sent fithe sewage sludge, proof the applicant and the cate attachment, provide sublished in 9 VAC 25-31	related to sewage sludge No ry). ewage sludge: ovide a description of the service to contractor(s). sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
the approve the approve the approve the approve that the approve the approve that the approve that the approve that the approve the approve that the approve that the approve that the approve th	Provide a line drawing and/od during the term of the period during the term of the period sludge, the destination(s) of ion and vector attraction redemation. Are any operational ment, use or disposal the results of the following for each contraction: It is responsible for the use and the applicant and the respection trations. Using the table be which limits in sewage sludge disposal practices. All data	e property bound or a narrative de mit including al fall liquids and duction. See al or maintenance sponsibility of a actor (attach add State Number(s) applie ad/or disposal or ive obligations of the low or a separa a have been esta must be based of	daries. escription that identifies all processes used for coll solids leaving each unit, attached flow schematice aspects of this facility a contractor?Yes _X ditional pages if necessary. Example:Zip: icable to this facility's self the sewage sludge, proof the applicant and the contractor attachment, provide sublished in 9 VAC 25-31 on three or more sample.	all sewage sludge processes that lecting, dewatering, storing, or , and all methods used for tic related to sewage sludge (_No ry). ewage sludge: evide a description of the service to contractor(s). sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
e employe g sewage gen reduct actor Information, treat provide time g address or P.O. Bor Town: () actor's Fed contractor vided to the ant Concer llutants will ed use or	d during the term of the perr sludge, the destination(s) of ion and vector attraction red rmation. Are any operational ment, use or disposal the reshe following for each contraction: icox: deral, State or Local Permit Notes is responsible for the use and applicant and the respection trations. Using the table behich limits in sewage sludge disposal practices. All data	mit including al fall liquids and fall liquids and fall liquids and fall liquids and fall liquids. See al or maintenance sponsibility of a actor (attach additional actor (attach additional actor disposal of the obligations of the low or a separate have been estal must be based of	Il processes used for coll solids leaving each unit, attached flow schemate attached flow schemate ce aspects of this facility a contractor? Yes X ditional pages if necessary. Zip: icable to this facility's set of the sewage sludge, proof the applicant and the cate attachment, provide sublished in 9 VAC 25-31 on three or more sample.	lecting, dewatering, storing, or , and all methods used for tic related to sewage sludge (_No ry). ewage sludge: evide a description of the service to contractor(s). sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
ation, treat provide to g address or P.O. Bor Town: () actor's Fed contractor vided to the ant Conceillutants wheel use or	ment, use or disposal the reshe following for each contrate to be following for each contrate to be forced by the following for the use and the applicant and the respection trations. Using the table be high limits in sewage sludge disposal practices. All data	sponsibility of a actor (attach add actor (attach ac	a contractor?Yes _X ditional pages if necessaryZip: icable to this facility's self the sewage sludge, proof the applicant and the contract attachment, provide sublished in 9 VAC 25-31 on three or more sample.	E.No ry). ewage sludge: evide a description of the service to contractor(s). sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
: () actor's Fed contractor vided to the ant Concer llutants wheel use or	is responsible for the use an ne applicant and the respecti ntrations. Using the table be hich limits in sewage sludge disposal practices. All data	Number(s) applied of disposal of the obligations of the low or a separate have been estal must be based of the object.	icable to this facility's sent the sewage sludge, proof the applicant and the cate attachment, provide sublished in 9 VAC 25-31 on three or more sample.	ovide a description of the service to contractor(s). sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
vided to the ant Concert llutants when we will be the concert will be the concert will be the concert will be the concert with the concert will be	ne applicant and the respecting applicant and the respecting at the table behigh limits in sewage sludge disposal practices. All data	ve obligations of the color of a separa to have been estal must be based of	of the applicant and the of ate attachment, provide sublished in 9 VAC 25-31 on three or more sample	sewage sludge monitoring data for -10 et seq. for this facility's s taken at least one month apart
llutants wi	hich limits in sewage sludge disposal practices. All data	have been esta must be based o	blished in 9 VAC 25-31 on three or more sample	-10 et seq. for this facility's s taken at least one month apart
				ge is incinerated
ΓΑΝΤ	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
nic				
um				
ium				
er				
f				
ıry				
num				
el				
um				
ine who is	s an officer for purposes of t	g certification s this certification	tatement with this applic	cation. Refer to the instructions to of the application you have
en el un ca	tion. Re	tion. Read and submit the following who is an officer for purposes of and are submitting:	tion. Read and submit the following certification see who is an officer for purposes of this certificationed and are submitting:	tion. Read and submit the following certification statement with this applice who is an officer for purposes of this certification. Indicate which parts of

Section D (Surface Disposal)



MAP TAKEN FROM NATIONAL GEOGRAPHIC TOPO, BLACKSBURG, VIRGINIA

BLACKSBURG - VPI SANITATION AUTHORITY VPDES PERMIT APPLICATION - SEWAGE SLUDGE SITE LOCATION MAP

SCALE: 1=2000' JOB NO.:10729.03

FIGURE 1

SEPT 2008 \Fig 1.dwg



FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Michael Vaught, Executive Director

Signature Michaps. Vaught Date Signed 10/06/2008

Telephone number (540) 552-6940

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: <u>Lower Stroubles Creek Wastewater Treatment Plant</u> VPDES PERMIT NUMBER: VA0060844 SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Comple	te this sect	tion if your facility generates sewage sludge or derives a material from sewage sludge
1.		nt Generated On Site. dry metric tons per 365-day period generated at your facility: 965.4 dry metric tons
2.	dispos	nt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or al, provide the following information for each facility from which sewage sludge is received. If you receive e sludge from more than one facility, attach additional pages as necessary. N/A Facility name: Contact Person: Title: Phone ()
	c. d.	Mailing address: Street or P.O. Box: City or Town: State: Zip: Facility Address: (not P.O. Box)
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treatma.	nent Provided at Your Facility. Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass B _X_Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Incineration
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown (Incinerated)
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: None
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: None
4.	of Vect	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One tor Attraction Reduction Options 1-8 (EQ Sludge). N/A ge sludge from your facility does not meet all of these criteria, skip Question 4.)
	a. b.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesX_No

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844 5. Sale or Give-Away in a Bag or Other Container for Application to the Land. (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or Ъ. given away in a bag or other container for application to the land. 6. Shipment Off Site for Treatment or Blending. N/A (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: а. Facility contact: Ъ. Title: Phone: () Mailing address: c. Street or P.O. Box: City or Town: _____ State: ____ Zip: Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: ____ dry d. metric tons List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of e. all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Type of Permit: Permit Number: Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your f. facility? ___Yes ___No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? __Class B Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the g. sewage sludge? Yes No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids) ___ Option 2 (Anaerobic process, with bench-scale demonstration) ___ Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) ___ Option 5 (Aerobic processes plus raised temperature) ___ Option 6 (Raise pH to 12 and retain at 11.5) ___ Option 7 (75 percent solids with no unstabilized solids) ___Option 8 (90 percent solids with unstabilized solids) None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: Does the receiving facility provide any additional treatment or blending not identified in f or g above? h. If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility

to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

	j k.	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give away for application to the land?YesNo If yes, provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.
7.	Land	Application of Bulk Sewage Sludge. N/A
		plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;
		ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons
	b.	Do you identify all land application sites in Section C of this application?YesNo
	υ.	If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo
	O.	If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).
8.	Surfo	ce Disposal. N/A
٥.		plete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
	ш.	sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is:Site OwnerSite operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the
		surface disposal site:
		Permit Number: Type of Permit:

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844

		AME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844
9.		eration.
	(Comp	elete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
1	_	incinerator: 965.4 dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		X Yes No If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	c.	Incinerator name or number:
	d.	Contact person:
	u.	Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.	Dispos	sal in a Municipal Solid Waste Landfill.
	(Compl	lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
		h municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
		pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name: New River Resource Authority
	b.	Contact person: Joe Levine, P.E. Title: Executive Director
		Phone: 540-674-1677
		Contact is: X Landfill Owner Landfill Operator
	c.	Mailing address.
	•	Street or P.O. Box: P.O. Box 1246
		City or Town: Dublin State: VA Zip: 24084
	d.	Landfill location.
		Street or Route #: 7100 Cloyd's Mountain Road
		County: Pulaski
		City or Town: Dublin State: VA Zip: 24084
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
	C	Variable-landfill used only as a back-up to incineration dry metric tons
	f.	List on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		548 VA – DEQ Solid Waste Landfill
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	_	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		_X_YesNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.? X Yes No
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? X Yes No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week
)		and time of the day sewage sludge will be transported. See Attached

Facility Name: Blacksburg-VPI Sanitation Authority VPDES Permit Number: VA0060844

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM Section B. Item 10.i.

Days and times sewage sludge is transported: Sewage sludge is typically incinerated; landfill disposal will only be used as a back-up if the Authority's incinerator is not operational or otherwise available. If landfill disposal is needed, the sludge will typically be transported between 8:00 am - 5:00 pm, Monday - Friday. Sludge will be transported to the New River Resource Authority Cloyd's Mountain Landfill in Dublin, Virginia.

Haul Route from WWTP to New River Resource Authority Cloyd's Mountain Landfill:

Begin at WWTP on Prices Fork Road

Right on Route 114 to Fairlawn

Right on Route 11 South to Dublin

Right on Route 100

Right on Cloyd's Mountain Road at Landfill

Return Route From Montgomery Regional Solid Waste Authority Transfer Station to WWTP:

Begin at Landfill on Cloyd's Mountain Road

Left on Route 100 to Dublin

Left on Route 11 to Fairlawn

Left on Route 114 to Christiansburg

Left on Prices Fork Road to WWTP

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844 SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

)	·	e this section for sewage sludge that is land applied unless any of the following conditions apply: The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead). e Section C for every site on which the sewage sludge that you reported in B.7 is land applied.		
	1.	Identifi	cation of Land Application Site.	
		a.	Site name or number:	
		b.	Site location (Complete i and ii)	
			i. Street or Route#:	
			County:	
			City or Town: State: Zip: ii. Latitude: Longitude:	
			ii. Latitude: Longitude:	
			Method of latitude/longitude determination	
			USGS map Filed survey Other	
		c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.	
	2.	Owner :	Information.	
		a.	Are you the owner of this land application site?YesNo	
		b.	If no, provide the following information about the owner:	
			Name:	
			Street or P.O. Box:	
			City or Town: State: Zip:	
			Phone: ()	
	3.	Applier	Information:	
1		a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land	
			application site?YesNo	
		b.	If no, provide the following information for the person who applies the sewage sludge:	
			Name:	
			Street or P.O. Box:	
			City or Town: State: Zip:	
		•	Phone: () List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person	
		c.	who applies sewage sludge to this land application site:	
			Permit Number: Type of Permit:	
			1 1/10 OTT OTTO	
		a		
	4.		pe. Identify the type of land application site from among the following:	
			cultural landReclamation siteForest ic contact siteOther. Describe	
		Publi	C contact siteOther. Describe	
	5.	Vector A	Attraction Reduction.	
			vector attraction reduction requirements met when sewage sludge is applied to the land application site?	
Yes No If yes, answer a and b. a. Indicate which vector attraction reduction option is met:				
			Indicate which vector attraction reduction option is met:	
			Option 9 (Injection below land surface)	
			Option 10 (Incorporation into soil within 6 hours)	
		Describe, on this form or on another sheet of paper, any treatment processes used at the land application site		
	to reduce the vector attraction properties of sewage sludge:			

FACIL				ment Plant	_VPDES PERMIT NUMBER:VA0060844	
6.	Cumulative Loadings and Remaining Allotments.					
	` -	te Question 6 only if the sewage - see instructions.)	e sludge applied to this site sin	ce July 20, 1993 i	is subject to the cumulative pollutant loading rates	
	a.	Have you contacted DEC	ascertain whether bulk s		where the sewage sludge subject to the subject to the CPLRs has been applied to	
		If no, sewage sludge sub If yes, provide the follow	ject to the CPLRs may no	ot be applied to	this site.	
		Permitting authority:	ving information.			
		Contact person:				
		Phone:()				
	Ъ.		has bulk sewage sludge s	subject to the C	CPLRs been applied to this site since July 20,	
			no, skip the rest of Ques			
	c.		, 1			
	d.	Provide the following in	formation for every facility	ty other than ye	ours that is sending or has sent sewage	
	sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility					
			additional pages as neces		·	
		Facility name:	1 0	•		
		Facility contact:				
		Title:				
		Phone: ()				
		Mailing address.				
		Street or P.O. Box:				
		City or Town:	State:	Zip:		
	e.		and allotment remaining,	in kg/hectare,	for each of the following pollutants:	
			Cumulative loading	Allotment	remaining	
		Arsenic				
		Cadmium				
		Copper	<u></u>			
		Lead				
		Mercury				
		Nickel	<u></u>			
		Selenium				
		Zinc	·			
by these	questions m	7-12 below only if you apply so nay be prepared as attachments tion A.7) who is responsible for	s to this form. Skip the follow	onsible for land aping questions if yo	pplication of sewage sludge. Information required ou contract land application to someone else (as	
7.	Sludge (table below or a separate	attachment, pr	ovide at least one analysis for each	
		DCD (#)				
		PCBs (mg/kg)				
		pH (S. U.)				
		Percent Solids (%)	n \			
		Ammonium Nitrogen (mg				
		Nitrate Nitrogen (mg/kg)				
		Total Kjeldahl Nitrogen (
		Total Phosphorus (mg/kg	;)			
		Total Potassium (mg/kg) Alkalinity as CaCO ₃ * (mg	~/lca)			
		A IKAHIHUV AS CACO: 1 IMS	2/K21			

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

8.		ige Requi				
			proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis			
			such factors as storage capacity, sludge production and land application schedule. Include pertinent			
			astifying storage requirements.			
	-		ge storage facilities must also provide the following information: dge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show			
	a.		ollowing topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the			
			erty line.			
		1)	Water wells, abandoned or operating			
		2)	Surface waters			
		3)	Springs			
		4)	Public water supply(s)			
		5)	Sinkholes			
		6)	Underground and/or surface mines			
		7)	Mine pool (or other) surface water discharge points			
		8)	Mining spoil piles and mine dumps			
		9)	Quarry(s)			
		10)	Sand and gravel pits			
		11)	Gas and oil wells			
		12)	Diversion ditch(s)			
		13)	Agricultural drainage ditch(s)			
		14)	Occupied dwellings, including industrial and commercial establishments			
		15)	Landfills or dumps			
		16)	Other unlined impoundments			
		17)	Septic tanks and drainfields			
		18)	Injection wells			
		19)	Rock outcrops			
	Ъ.		ographic map of sufficient detail to clearly show the following information:			
		1)	Maximum and minimum percent slopes			
		2)	Depressions on the site that may collect water			
		3)	Drainageways that may attribute to rainfall run-on to or runoff from this site Portions of the site (if any) which are located with the 100-year floodplain and how the storage			
		4)	facility will be protected from flooding			
	0	Data	and specifications for the storage facility lining material.			
	c. d.		and cross-sectional views of the storage facility.			
	e.		of the storage facility to the seasonal high water table and separation distance to the			
	C.	-	anent water table.			
		P *				
9.	Land	Area Rec	quirements. Provide calculations justifying the land area requirements for land application of sewage			
	sludg	e taking i	nto consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of			
			dge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal			
	loadir	ngs (CPL)	R sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the			
	most	limiting f	actor for land application.			
10	Tand	1	was west Farmer Durvide a much subjected Covers of Cludge Application Agreement Form (attached)			
10.			greement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) wher if sewage sludge is to be applied onto land not owned by the applicant.			
	101 04	cii iaiido	when it sewage studge is to be applied onto fand flot owned by the applicant.			
11.	Groui	nd Water	Monitoring.			
		Are any ground water monitoring data available for this land application site?YesNo				
	If yes	If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the				
		well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these				
	data.					

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70%

Land Application Site Information.

the agronomic rate at a frequency greater than once in a 3 year period)

12.

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)
 Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of

characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844

Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- Using a narrative format and referencing any related charts, describe the proposed cropping system. Show
 how the crop rotation and management will be coordinated with the design of the land application system.
 Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting
 and harvesting schedules and timing of land application.

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844 SEWAGE SLUDGE APPLICATION AGREEMENT

)	This sev	his sewage sludge application agreement is made on this date between					
	here as	, referred to here as "landowner", and, referred to ere as the "Permittee".					
	certain	Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of sewage sludge on landowner's land in amounts and in a manner authorized by VPDES permit number which is held by the Permittee.					
	condition	oner acknowledges that the appropriate application of oning to the property. Moreover, landowner acknowlealth, the following site restrictions must be adhered on:	vledges having been	expressly advised that, in o	rder to protect		
	1.	Food crops with harvested parts that touch the sewa not be harvested for 14 months after application of		are and are totally above the	land surface shall		
	2.	Food crops with harvested parts below the surface of sewage sludge when the sewage sludge remains on into the soil;					
	3.	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;					
	4.	Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge;					
5.	5.	Animals shall not be grazed on the land for 30 days after application of sewage sludge;					
	6.	Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sews sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board;					
7. Public access to land with a high potential for public exposure shall be restricted for one year after application sewage sludge;			application of				
	8.	Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.			plication of		
	9.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three year following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).					
	specifica	re agrees to notify landowner or landowner's designed ally prior to any particular application to landowner's notice to the address specified below.					
		Landowner:	Permittee:				
		Signature	Signature	;			
		Mailing Address	Mailing Address				

FACILITY NAME: Lower Stroubles Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0060844 SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit. Information on Active Sewage Sludge Units. 1. Unit name or number: b. Unit location Street or Route#: i. County: _____ State: _____ Zip: _____ Longitude: City or Town: ____ Latitude: ____ ii. Method of latitude/longitude determination USGS map _____ Filed survey Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: d. dry metric tons. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: e. _____ dry metric tons. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of f. 1 x 10⁻⁷cm/sec? Yes No If yes, describe the liner or attach a description. Does the active sewage sludge unit have a leachate collection system? ___Yes ___No g. If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal: If you answered no to either f or g, answer the following: h. Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? __Yes __No If yes, provide the actual distance in meters: Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons i. Anticipated closure date for active sewage sludge unit, if known: Provide with this application a copy of any closure plan developed for this active sewage sludge unit. Sewage Sludge from Other Facilities. 2. Is sewage sludge sent to this active sewage sludge unit from any facilities other than yours? ___Yes ___No If yes, provide the following information for each such facility, attach additional sheets as necessary. Facility name: a. Facility contact: Ъ. Title: Phone: () Mailing address. c. Street or P.O. Box: ____ State:_____ Zip: City or Town: List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other d. federal, state or local permits that regulate the facility's sewage sludge management practices: Permit Number: Type of Permit: Which class of pathogen reduction is achieved before sewage sludge leaves the other facility? e. Class B ___Neither or unknown Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to f.

reduce pathogens in sewage sludge:

		ME: <u>Lower Stroubles Creek Wastewater Treatment Plant</u> VPDES PERMIT NUMBER:VA0060844 Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?
	g.	Option 1 (Minimum 38 percent reduction in volatile solids)
)		Option 2 (Anaerobic process, with bench-scale demonstration)
′		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale definition) Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		Option 8 (90 percent solids with distabilized solids) None or unknown
	h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce
	11.	vector attraction properties of sewage sludge:
		vector attraction properties of sewage studge.
	i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by
		the other facility that are not identified in e - h above:
	2 Vooton	Attraction Reduction.
		Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage
	a.	sludge unit?
		Option 9 (Injection below land surface)
		Option 10 (Incorporation into soil within 6 hours)
		Option 10 (Incorporation into son within a hours) Option 11 (Covering active sewage sludge unit daily)
	ъ.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge
	0.	unit to reduce vector attraction properties of sewage sludge:
		• • • • • • • • • • • • • • • • • • • •
l		
	4. Ground	Water Monitoring.
	a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water
		monitoring data otherwise available for this active sewage sludge unit?YesNo
		If yes, provide a copy of available ground water monitoring data. Also provide a written description of the
		well locations, the approximate depth to ground water, and the ground water monitoring procedures used to
		obtain these data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit?
		YesNo If yes, submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active
		sewage sludge unit has not been contaminated?YesNo
		If yes, submit a copy of the certification with this application.
	5. Site-Sp	ecific Limits.
		seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?
		No If yes, submit information to support the request for site-specific pollutant limits with this application.
	165	

